



MATERIAL SAFETY DATA SHEET

In accordance with the criteria of Regulation No 1907/2006 (REACH)
as amended

WHITE FIRELIGHTER

Date: 17.07.2014

Revision: -

Page/pages: 1/9

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

1.1. Product identifier

White firelighter

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

Relevant identified uses: Help to inflammation.

Uses advised against: Not determined.

1.3. Details of the supplier of the safety data sheet

Distributor: Fire Family Sp. z o.o.

Address: Poland; PL 58-100 Świdnica, Hetmańska 8-10 St.

Telephone/Fax: +48 74 850 3620 / +48 74 850 3630

E-mail address of the person responsible for the MSDS: jakosc@firefamily.pl

1.4. Emergency telephone number

112 (emergency call), 998 (fire brigade), 999 (ambulance)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation 1272/2008/EC:

Flam. Sol. 2; H228

Skin Irrit. 2; H315

STOT SE 3; H336

Aquatic Chronic 2; H411

Hazards to man: Causes skin irritation. May cause drowsiness or dizziness.

Hazards to environment: Toxic to aquatic life with long lasting effects.

Hazard from physical and chemical properties: Flammable solid.

In section 16 stated the importance of H-phrases.

2.2. Label elements

Hazard pictograms, signal word:



Warning

Hazard statements:

H228 - Flammable solid.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness.

H411 - Toxic to aquatic life with long lasting effects.



MATERIAL SAFETY DATA SHEET

In accordance with the criteria of Regulation No 1907/2006 (REACH)
as amended

WHITE FIRELIGHTER

Date: 17.07.2014

Revision: -

Page/pages: 2/9

Precautionary statements:

P102 - Keep out of reach of children.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P273 - Avoid release to the environment.
P280 - Wear protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P405 - Store locked up.
P501 - Dispose of contents/container to in accordance with national regulation.

The names of hazardous ingredients on the label: None.

2.3. Other hazards

The substance is not meeting the criteria for PBT or vPvB in accordance with Annex XIII of Regulation 1907/2006 (REACH).

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Substance name:	Kerosine (petroleum)
Concentration [%]:	70-80
CAS Number:	8008-20-6
WE Number:	232-366-4
Index number:	649-404-00-4
Classification 67/548/EEC:	Xn; R65 R10* Xi; R38* R67* N; R51/53* Note H
Classification 1272/2008/EC:	Asp. Tox. 1 H304 Flam liq. 3; H226* Skin Irrit. 2; H315* STOT SE 3; H336* Aquatic Chronic 2; H411* Note H
The registration number:	01-2119485517-27-XXXX

*Additional classification proposed by the manufacturer.

Note H (Table 3.1): The classification and labelling shown for this substance applies to the hazardous property(ies) indicated by the hazard statement(s) in combination with the hazard class(es) and category(ies) shown. The requirements of Article 4 for manufacturers, importers or downstream users of this substance apply to all other hazard classes and categories. For hazard classes where the route of exposure or the nature of the effects leads to a differentiation of the classification of the hazard class, the manufacturer, importer or downstream user is required to consider the routes of exposure or the nature of



MATERIAL SAFETY DATA SHEET

In accordance with the criteria of Regulation No 1907/2006 (REACH)
as amended

WHITE FIRELIGHTER

Date: 17.07.2014

Revision: -

Page/pages: 3/9

the effects not already considered. The final label shall follow the requirements of Article 17 and of section 1.2 of Annex I.

Note H (Table 3.2): The classification and label shown for this substance applies to the dangerous property(ies) indicated by the risk phrase(s) in combination with the category(ies) of danger shown. Manufacturers, importers and downstream users of this substance shall be obliged to carry out an investigation to make themselves aware of the relevant and accessible data which exists for all other properties to classify and label the substance. The final label shall follow the requirements of section 7 of Annex VI to Directive 67/548/EEC.

In section 16 stated the importance of R- and H-phrases.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Remove to fresh air. Place in a comfortable position. Keep warm and rested. If necessary, obtain medical attention.

Skin contact: Flush contaminated skin with plenty of water. Seek medical attention.

Eye contact: Remove any contact lenses. In case of contact with particles of product, remove them like any other foreign body. Flush eyes with cool water. If necessary, obtain medical attention.

Ingestion: Unlikely route of exposure. Drink a few glasses of water. Never give an unconscious person anything by mouth. Seek medical advice if necessary.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation: Vapours generating from hot or burning product may cause drowsiness, dizziness or coughing.

Skin contact: Causes skin irritation.

Eye contact: Direct contact may cause transitional, mechanical eyes irritation.

Ingestion: Unlikely route of exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Remove affected person from the contaminated product of the environment. In the event of health problems, consult your doctor or the center of toxicological concern. Provide the information contained in the MSDS. If unconscious, do not give anything by mouth.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray, foam, powder, carbon dioxide (CO₂).

Unsuitable extinguishing media: Water jet.

5.2. Special hazards arising from the substance or mixture

Flammable solid. During combustion may produce hazardous products: carbon monoxide, nitrogen oxides, inflammable hydrocarbons. Avoid inhalation of combustion products, because they may pose a health risk.

5.3. Advice for firefighters

Wear full protective equipment and self-contained breathing apparatus with independent air circulation. Containers exposed to fire or high temperature cool with water and if possible remove from the danger zone. Collect mechanically. Keep out of drains, surface waters and



MATERIAL SAFETY DATA SHEET

In accordance with the criteria of Regulation No 1907/2006 (REACH)
as amended

WHITE FIRELIGHTER

Date: 17.07.2014

Revision: -

Page/pages: 4/9

soil against pollution. Water from fire treated as hazardous pollution and accumulate in separate containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Should restrict access to non-emergency personnel to the area of failure until the completion of the disposal of the product. Wear appropriate personal protective equipment. Provide adequate ventilation. Avoid ignition sources.

For emergency responders: Wear appropriate personal protective equipment. Provide adequate ventilation. Avoid ignition sources.

6.2. Environmental precautions

Secure the gullies. Prevent contamination of surface water and ground. In the event of any serious pollution of the environment, notify the appropriate administrative authority, control and rescue services. Dispose of used packaging to deliver to eligible organizations.

6.3. Methods and material for containment and cleaning up

Keep damaged packaging. Product should be collected mechanically. Collected product put in a substitute container, reuse or refer to the destruction.

6.4. Reference to other sections

Disposal - see Section 13. Personal protective equipment - see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not eat, drink, smoke or take drugs at work. Remove contaminated clothing and clean before reuse. Wash hands and face before break and after work with the product. Use protective hand cream. Do not empty into drains. Provide adequate ventilation in the workplace. Avoid ignition sources. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting equipment. Avoid contact with oxidizing agents.

7.2. Conditions for safe storage, including any incompatibilities

Keep in properly labeled, factory sealed containers, with a label which complies with current regulations. Store in a dry and well-ventilated area. Avoid contact with oxidizing agents. Protect from sources of ignition. Do not store with food and animal feed.

7.3. Specific end use(s)

Help to inflammation.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Substance name	TWA	STEL	BLV
Kerosine [CAS: 8008-20-6]	100 mg/m ³ (Poland)	300 mg/m ³ (Poland)	-

Legal basis: Ordinance on maximum permissible concentration and intensity of harmful factors in the work environment in accordance with national limit values.



MATERIAL SAFETY DATA SHEET

In accordance with the criteria of Regulation No 1907/2006 (REACH)
as amended

WHITE FIRELIGHTER

Date: 17.07.2014

Revision: -

Page/pages: 5/9

Monitoring procedures:

Use methods described in European Standards.

8.2. Exposure controls

Mandatory general regulations on occupational health. Do not allow the crossing of the environment, the workplace concentration limits for hazardous constituents. After work, wash and clean the surface of the body and clothing. Do not eat, drink, smoke or take drugs at work. Remove contaminated clothing and clean before reuse. Wash hands and face before break and after working with the product. Provide a good standard of ventilation in the workplace. Avoid contact with skin and eyes. Do not breathe vapours from heating/burning.

Eye / face protection: Usually is not required. Use suitable goggles or face shield if necessary.

Skin Protection: Wear protective gloves made of butyl rubber (in accordance with EN 374). Use protective hand cream.

Respiratory protection: Usually not required. In special cases, use appropriate respiratory protection.

Thermal Hazards: Usually is not required.

Used personal protective equipment should meet the requirements of local/regional/national laws. The employer must provide personal protective equipment appropriate to the type of work and meeting all requirements, including maintenance and cleaning.

Concentrations should be monitored hazardous substances in the workplace in accordance with recognized test methods. Mode, method, type and frequency of testing and measurement of harmful factors in the working environment should meet the requirements of local/regional/national laws.

Environmental exposure controls: Shouldn't be allowed to reach large quantities of ground water, sewage, waste water or soil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:

White solid

Odour:

Oil

Odour threshold:

Not specified

pH:

Not applicable

Melting point/freezing point:

Not applicable

Initial boiling point and boiling range:

Not applicable

Flash point:

Not specified

Evaporation rate:

Not applicable

Flammability (solid, gas):

Flammable solid

<45 s/100 mm (A.10)

Upper/lower flammability or explosive limits:

Not specified

Vapour pressure:

Not specified

Vapour density:

Not specified



MATERIAL SAFETY DATA SHEET

In accordance with the criteria of Regulation No 1907/2006 (REACH)
as amended

WHITE FIRELIGHTER

Date: 17.07.2014

Revision: -

Page/pages: 6/9

Relative density:	0.81 (20°C)
Solubility:	Insoluble in water
Partition coefficient: n-octanol/water:	Not specified
Auto-ignition temperature:	Not specified
Decomposition temperature:	Not specified
Viscosity:	Not applicable
Explosive properties:	Not specified
Oxidising properties:	Not specified

9.2. Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with strong oxidising agents.

10.2. Chemical stability

Stable under normal conditions of handling and storage.

10.3. Possibility of hazardous reactions

Not applicable.

10.4. Conditions to avoid

Protect from heat and ignition sources.

10.5. Incompatible materials

Avoid contacts with strong oxidising agents.

10.6. Hazardous decomposition products

Not applicable.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity:

Kerosine (petroleum) [CAS: 8008-20-6]

LD₅₀ (ingestion, rat) >5000 mg/kg (OECD TG 420)

LD₅₀ (skin, rabbit) >2000 mg/kg (OECD TG 402)

LC₅₀ (inhalation, rat, vapour) >5.28 mg/l (OECD 403)

Irritation: Causes skin irritation.

Corrosivity: Not classified.

Sensitisation: Not classified.

Repeated dose toxicity: May cause drowsiness or dizziness

Carcinogenicity: Not classified.

Mutagenicity: Not classified.

Toxicity for reproduction: Not classified.

Inhalation: Vapours generating from hot or burning product may cause drowsiness, dizziness or coughing.

Skin contact: Causes skin irritation.

Eye contact: Direct contact may cause transitional, mechanical eyes irritation.

Ingestion: Unlikely route of exposure.



MATERIAL SAFETY DATA SHEET

In accordance with the criteria of Regulation No 1907/2006 (REACH)
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WHITE FIRELIGHTER

Date: 17.07.2014

Revision: -

Page/pages: 7/9

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

Acute toxicity:

Kerosine (petroleum) [CAS: 8002-20-6]

Toxicity to fish:

LL₅₀ (*Oncorhynchus mykiss*) 2-5 mg/l/96h (OECD 203)

NOEL (*Oncorhynchus mykiss*) 0.098 mg/l/28d

Toxicity to Aquatic invertebrates:

EL₅₀ (*Daphnia magna*) 1.4 mg/l/48h (OECD 202)

NOEL (*Daphnia magna*) 0.89 mg/l/21d (OECD 211)

Toxicity to microorganisms:

EL₅₀ (*Pseudokirchnerella subcapitata*) 1-3 mg/l/72h (OECD 201)

12.2. Persistence and degradability

Not specified.

12.3. Bioaccumulative potential

Bioaccumulation is not expected.

12.4. Mobility in soil

Insoluble in water, not mobile in soil.

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Other adverse effects

Not specified.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

During removal of waste comply with the regional / national laws.

Community legislation:

Directive **2008/98/EC** of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended.

Disposal methods for the product: Don't introduce into the environment. Disposal in accordance with the local/national legislation.

Disposal methods for used packing: Empty containers give for appropriate rubbish dump or for disposal in accordance with the local/national legislation. Dispose of uncleanable containers like of the product.

SECTION 14: Transport information

14.1. UN number

UN 2623

14.2. UN proper shipping name

FIRELIGHTER, SOLID with flammable liquid

14.3. Transport hazard class(es)

4.1



MATERIAL SAFETY DATA SHEET

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WHITE FIRELIGHTER

Date: 17.07.2014

Revision: -

Page/pages: 8/9

14.4. Packing group

III

14.5. Environmental hazards

Product hazardous for the environment.

14.6. Special precautions for user

During cargo handling should be used with personal protective equipment - see Section 8.
Avoid sources of ignition.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 as amended.

Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended.

15.2. Chemical safety assessment

There are no data on the chemical safety assessment.

SECTION 16: Other information

The full text of statements R and H under Sections 2 and 3:

R10 - Flammable.

R38 - Irritating to skin.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 - Harmful: may cause lung damage if swallowed.

R67 - Vapours may cause drowsiness and dizziness.

H226 - Flammable liquid and vapour.

H228 - Flammable solid.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness.

H411 - Toxic to aquatic life with long lasting effects.



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Page/pages: 9/9

Key to abbreviations and acronyms:

Aquatic Chronic 2 - Hazardous to the aquatic environment - Chronic Hazard, Category 2.

Asp. Tox. 1 - Aspiration hazard, Hazard Category 1.

BLV - Biological limit values.

EL₅₀ - The average level of effective.

Flam. Liq. 3 - Flammable liquids, Hazard Category 3.

Flam. Sol. 2 - Flammable solids, Hazard Category 2.

LC₅₀ - Lethal concentration media.

LD₅₀ - Median lethal dose.

LL₅₀ - Load level, which is lethal to 50% of the exposed population.

N - Dangerous for the environment.

NOEL - The level at which no observed effect.

Skin Irrit. 2 - Skin irritation, Hazard Category 2.

STEL - Short-term exposure limit.

STOT SE 3 - Specific target organ toxicity - Single exposure, Hazard Category 3, Narcosis.

TWA - 8 hours' time-weighted average.

Xi - Irritant.

Xn - Harmful.

Training advice: Before use read the MSDS.

Sources of key data:

Producer's MSDS (25.06.2014-revision date).

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are also treated as aid to safety in transport, storage and usage of the product. This does not free the user from the responsibility of improper usage of the information above also of improper compliance with the law norms in the field.

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This MSDS replaces and annuls all the previous versions.