



UWE GRIGOLEIT Vertriebsagentur
36304 Alsfeld

Date printed 12.07.2024, Revision 23.05.2024

Version 1.0

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

1.1 Product identifier

firelighter (kerosene)
UFI: K0XT-S66H-H20W-4R6J

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

Company

UWE GRIGOLEIT Vertriebsagentur
Wallgasse 25
36304 Alsfeld / GERMANY
Phone +49 (0) 6631 91 78 74
Fax +49 (0) 6631 91 78 75
Homepage www.wunderblitz.com
E-mail info@wunderblitz.com

Address enquiries to

Technical information

info@wunderblitz.com

Safety Data Sheet

sdb@chemiebuero.de (No dispatch of safety data sheets)

Safety data sheets are available from the supplier.

1.4 Emergency telephone number

Advisory body

Poison Information Centre Mainz: +49 (0) 6131-19240 (24h) (advisory service in German or English language)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Flam. Sol. 2: H228 Flammable solid.
Skin Irrit. 2: H315 Causes skin irritation.
Eye Irrit. 2: H319 Causes serious eye irritation.
STOT SE 3: H336 May cause drowsiness or dizziness.
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.




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2.2 Label elements

	The product is required to be labelled in accordance with regulation CLP.	
Hazard pictograms		
		
Signal word	WARNING	
Contains:	Kerosine (petroleum), hydrodesulfurized	
Hazard statements	H228 Flammable solid. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects.	
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. P261 Avoid breathing fume/vapours/spray. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves / eye protection. P302+P352 IF ON SKIN: Wash with plenty of water / soap. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTER / doctor if you feel unwell. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container to approved disposal company or municipal collection point.	

2.3 Other hazards

Human health dangers	Contains no ingredients with endocrine-disrupting properties.
Environmental hazards	Does not contain any PBT or vPvB substances.
Other hazards	Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
< 80	Kerosine (petroleum), hydrodesulfurized CAS: 64742-81-0, EINECS/ELINCS: 265-184-9, EU-INDEX: 649-423-00-8, Reg-No.: 01-2119462828-25 GHS/CLP: Flam. Liq. 3: H226 - Skin Irrit. 2: H315 - Asp. Tox. 1: H304 - STOT SE 3: H336 - Aquatic Chronic 2: H411
< 2	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts CAS: 68411-30-3, EINECS/ELINCS: 270-115-0, Reg-No.: 01-2119489428-22-XXXX GHS/CLP: Acute Tox. 4: H302 - Skin Irrit. 2: H315 - Eye Dam. 1: H318 - Aquatic Chronic 3: H412

Comment on component parts For full text of H-statements: see SECTION 16.



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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	Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

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.

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 with the regulations.

6.4 Reference to other sections

See SECTION 8+13



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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 or smoke when using this product.

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.

storage class (TRGS 510)

Storage class 4.1B (VCI)

7.3 Specific end use(s)

See product use, SECTION 1.2



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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored DE (TRGS 900)

Substance
Kerosine (petroleum), hydrodesulfurized
CAS: 64742-81-0, EINECS/ELINCS: 265-184-9, EU-INDEX: 649-423-00-8, Reg-No.: 01-2119462828-25
Exposure limit: 600 mg/m ³ , AGS 2.9

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

DNEL

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
Industrial, inhalative, Long-term - systemic effects, 7,6 mg/m ³
Industrial, dermal, Long-term - systemic effects, 119 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 1,3 mg/m ³
general population, dermal, Long-term - systemic effects, 42,5 mg/kg bw/day
general population, oral, Long-term - systemic effects, 0,425 mg/kg bw/day
Kerosine (petroleum), hydrodesulfurized, CAS: 64742-81-0
general population, oral, Long-term - systemic effects, 19 mg/kg (24h)

PNEC

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
soil, 35 mg/kg
sediment (seawater), 6,8 mg/kg sediment dw
sediment (freshwater), 8,1 mg/kg sediment dw
sewage treatment plants (STP), 3,43 mg/L
seawater, 0,027 mg/L
freshwater, 0,268 mg/L

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. 0,4 mm; butyl rubber, > 120 min (EN 374)
Skin protection	Protective clothing (EN 340)
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.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	solid
Form	solid
Color	white
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point or initial boiling point and boiling range [°C]	not applicable
Flash point [°C]	not applicable
Flammability	yes
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/cm ³]	not determined
Relative density	not determined
Bulk density [kg/m ³]	not determined
Solubility in water	insoluble
Solubility other solvents	No information available.
Partition coefficient n-octanol/water (log value)	not determined
Kinematic viscosity	not applicable
Relative vapour density	not determined
Melting point [°C]	not applicable
Auto-ignition temperature [°C]	not determined
Decomposition temperature [°C]	not determined
Particle characteristics	not applicable

9.2 Other information

Burning time: ≤ 45 s

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.

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.
Keep away from open flames, hot surfaces and sources of ignition.

10.4 Conditions to avoid

See SECTION 7.2.



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10.5 Incompatible materials

Oxidizing agent

10.6 Hazardous decomposition products

No hazardous decomposition products known.



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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

Product
ATE-mix, oral, > 2000 mg/kg
Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
LD50, oral, Rat, 1080 mg/kg OECD 401
Kerosine (petroleum), hydrodesulfurized, CAS: 64742-81-0
LD50, oral, Rat, > 5000 mg/kg (OECD TG 420)

Acute dermal toxicity

Product
dermal, Based on the available information, the classification criteria are not fulfilled.
Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
LD50, dermal, Rat, > 2000 mg/kg OECD 402
Kerosine (petroleum), hydrodesulfurized, CAS: 64742-81-0
LD50, dermal, Rabbit, > 2000 mg/kg (OECD TG 402)

Acute inhalational toxicity

Product
inhalative, Based on the available information, the classification criteria are not fulfilled.
Substance
Kerosine (petroleum), hydrodesulfurized, CAS: 64742-81-0
LC50, inhalation (vapour), Rat, > 5,28 mg/l (OECD 403)

Serious eye damage/irritation

Irritant
Based on the available information, the classification criteria are fulfilled.
Calculation method

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
Eye, Rabbit, OECD 405, Causes serious eye damage.

Skin corrosion/irritation

Irritant
Based on the available information, the classification criteria are fulfilled.
Calculation method

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
dermal, Rabbit, OECD 404, irritant

Respiratory or skin sensitisation

Based on the available information, the classification criteria are not fulfilled.

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
dermal, Guinea pig, OECD 406, non-sensitizing



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Specific target organ toxicity — single exposure Vapours may cause drowsiness and dizziness.
Based on the available information, the classification criteria are fulfilled.
Calculation method

Specific target organ toxicity — repeated exposure Based on the available information, the classification criteria are not fulfilled.

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
NOAEL, oral, Rat, 85 mg/kg bw/day (subchronic), The effects observed are not sufficient for classification.
NOAEL, dermal, Rat, 2500 mg/kg bw/day (subchronic), no adverse effect observed

Mutagenicity Based on the available information, the classification criteria are not fulfilled.

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
in vitro, OECD 471, negativ
in vivo, OECD 476, negativ

Reproduction toxicity Based on the available information, the classification criteria are not fulfilled.

- Fertility

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
NOAEL, oral, Rat, 350 mg/kg bw/day (chronic), no adverse effect observed

- Development

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
NOAEL, oral, mouse, 300 mg/kg bw/day (chronic), no adverse effect observed

Carcinogenicity Based on the available information, the classification criteria are not fulfilled.

Aspiration hazard Based on the available information, the classification criteria are not fulfilled.

General remarks

Toxicological data of complete product are not available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties Contains no ingredients with endocrine-disrupting properties.

11.2.2 Other information none

SECTION 12: Ecological information

12.1 Toxicity

Substance
Kerosine (petroleum), hydrodesulfurized, CAS: 64742-81-0
EL50, (72h), Pseudokirchneriella subcapitata, 1 - 3 mg/l (OECD 201)
EL50, (48h), Daphnia magna, 1,4 mg/l (OECD 202)
LL50, (96h), Oncorhynchus mykiss, 2 - 5 mg/l (OECD 203)
NOEL, (21d), Daphnia magna, 0,89 mg/l (OECD 211)
NOEL, (28d), Oncorhynchus mykiss, 0,098 mg/l



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12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	No information available.

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 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

Do not discharge product unmonitored into the environment.

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* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to ADR/RID 2623

Inland navigation (ADN) 2623

Marine transport in accordance with IMDG 2623



Air transport in accordance with IATA 2623

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14.2 UN proper shipping name

Transport by land according to ADR/RID Firelighters, solid (Kerosine (petroleum))
- 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) Firelighters, solid (Kerosine (petroleum))
- Classification Code F1
- Label  

Marine transport in accordance with IMDG Firelighters, solid (Kerosine (petroleum))
- EMS F-A, S-I
- Label  
- IMDG LQ 5 kg

Air transport in accordance with IATA Firelighters, solid
- Label 

14.3 Transport hazard class(es)

Transport by land according to ADR/RID 4.1 (N)

Inland navigation (ADN) 4.1 (N)

Marine transport in accordance with IMDG 4.1

Air transport in accordance with IATA 4.1

14.4 Packing group

Transport by land according to ADR/RID III

Inland navigation (ADN) III

Marine transport in accordance with IMDG III

Air transport in accordance with IATA III



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14.5 Environmental hazards

Transport by land according to ADR/RID	yes
Inland navigation (ADN)	yes
Marine transport in accordance with IMDG	MARINE POLLUTANT
Air transport in accordance with IATA	yes

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

No information available.

SECTION 15: Regulatory information

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

EEC-REGULATIONS	2008/98/EG (2000/532/EC); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707
- Comment on component parts	Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
- Annex XIV (REACH)	According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances \geq 0.1% that are subject to authorisation.
- Annex XVII (REACH)	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains \geq 0.1% of substances with the following restrictions. 40, 75 According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is not subject to any restrictions.
TRANSPORT-REGULATIONS	ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)
NATIONAL REGULATIONS (DE):	Hazardous Substances Ordinance - GefStoffV 21.07.2021; Detergent and Cleaning Agents Act - WRMG; Federal Water Act - WHG; Technical Rule for Hazardous Substances - TRGS: 200, 220, 615, 900, 905.
- Water hazard class	1, conf. AwSV, 18.04.2017
- Decree for case of interference, observe limits	yes
- Class. according to TA-Luft	5.2.5.
Storage class (TRGS 510)	Storage class 4.1B (VCI)
- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
- VOC (2010/75/CE)	not relevant
- Other regulations	TRGS 510: Storage of hazardous substances in non-stationary containers TRGS 800: Fire protection measures

15.2 Chemical safety assessment

not applicable



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SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H412 Harmful to aquatic life with long lasting effects.
H318 Causes serious eye damage.
H302 Harmful if swallowed.
H411 Toxic to aquatic life with long lasting effects.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H226 Flammable liquid and vapour.

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
ATE = acute toxicity estimate
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
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
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
IVIS = In vitro irritation score
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
LL50 = Median lethal loading
LQ = Limited Quantities
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
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)
Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)

Modified position

none

