SAFETY DATA SHEET

Blåtind Alkylatbensin 4T

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	02.05.2018
Revision date	16.06.2022

1.1. Product identifier

Product name	Blåtind Alkylatbensin 4T
Article no.	FT523, FT607, FT706

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

Use of the substance / mixture	Fuel for smal engines

1.3. Details of the supplier of the safety data sheet

Producer

Company name	Wilhelmsen Chemicals AS.
Postal address	POSTBOKS 15
Postcode	3141
City	KJØPMANNSKJÆR
Country	NORGE
Email	service.chemicals@wilhelmsen.com
Enterprise No.	953 803 674
Company name	Wilhelmsen Chemicals AS
Office address	Kirkeveien 578
Postcode	3143
City	KJØPMANNSKJÆR
Country	Norway
Telephone number	+47 33351500
Email	service.chemicals@wilhelmsen.com
Website	www.wilhelmsenchemicals.no

Contact person	service.chemicals@wilhelmsen.com

1.4. Emergency telephone number

Emergency telephone	Telephone number: +47 33 35 15 00 Description: Wilhelmsen Chemicals AS Telephone number: +47 22 59 13 00 Description: The Norwegian "Giftinformasjonssentralen" - 24 hour - Telephone.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Flam. Liq. 1; H224 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 3; H413
CLP classification, comments	List of relevant H-phrases please check section 16.

2.2. Label elements

Hazard pictograms (CLP)

Composition on the label	Naphtha (petroleum), full-range alkylate, butane-contg. 80 - 97 %, Naphtha (petroleum), isomerization 5 - 15 %, Butane 2 - 5 %
Signal word	Danger
Hazard statements	H224 Extremely flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H413 May cause long lasting harmful effects to aquatic life.
Precautionary statements	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P235 Keep cool. P260 Do not breathe dust / fume / gas / mist / vapours / spray. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician. P331 Do NOT induce vomiting. P262 Do not get in eyes, on skin, or on clothing. P501 Dispose of contents / container to approved disposal accoring to local regulations.

2.3. Other hazards

PBT / vPvB	None.
Other hazards	Store as a flammable liquid.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Naphtha (petroleum) , full-range alkylate, butane-contg.	CAS No.: 68527-27-5 EC No.: 271-267-0 Index No.: 649-282-00-2	Carc. 1B; H350; Muta. 1B; H340; Asp. tox. 1; H304; CLP classification, notes: P	80 - 97 %	
Naphtha (petroleum) , isomerization	CAS No.: 64741-70-4 EC No.: 265-073-5 Index No.: 649-277-00-5	Carc. 1B; H350; Muta. 1B; H340; Asp. tox. 1; H304; CLP classification, notes: P	5 - 15 %	
Butane	CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0	Flam. Gas 1; H220; Press. Gas (Comp.) ; CLP classification, notes: C; U	2 - 5 %	

Description of the mixture	List of relevant H-phrases please check section 16.
Substance comments	Naphtha do not classify as H340 because benzene content is lower than 0.1%. Naphtha is not classified as H350 due to benzene content is lower than 0.1%. Aroma content maximum 1%.

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.
Inhalation	Move the exposed person to fresh air at once. General first aid, rest, warmth and fresh air. Serious cases: If not breathing, give artificial respiration. Unconscious persons must be locked on their side, head low and kept warm. CALL AN AMBULANCE. Bring along these instructions to the hospital.
Skin contact	Wash skin thoroughly with soap and water. Promptly wash contaminated skin with water. Promptly remove clothing if soaked through and wash the skin with water. Get medical attention if any discomfort continues.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring these instructions.
Ingestion	Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions. Immediately call a POISON CENTER or doctor/physician.

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

General symptoms and effects	Aspiration of the product may cause chemical pneumonia.
Acute symptoms and effects	Inhalation: Exposure to high concentrations may cause irritation of respiratory tract, blurred vision, headache, dizziness, nausea, vomiting and

	unconsciousness. Skin contact: May degrease the skin and cause irritation, pain, swelling and redness. The product can be absorbed through the skin. May cause pain and damage to tissues and mucous membranes. Eye contact: May cause transient pain and redness. Ingestion: May cause nausea, vomiting, diarrhea and difficulty breathing. May cause burning and damage to tissues and mucous membranes. Even small amounts of the product can cause chemical pneumonia, if it is associated with ingestion or if vomiting is drawn into the lungs. Chemical pneumonia can occur within a day and can be deadly.
Delayed symptoms and effects	Chemical pneumonia can occur as late as 1 day after exposure, and can be life-threatening.

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

Medical treatment	Treat symptomatically.
Medical monitoring for delayed effects	Chemical pneumonia can occur as late as 1 day after aspiration.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide or dry powder. Dry chemicals, sand, dolomite etc. Cool containers exposed to heat with water spray and remove container, if no risk is involved.
Improper extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	Vapours may form explosive air mixtures even at room temperature. Vapours are heavier than air and may spread near ground to sources of ignition. Vapours may be ignited by a spark, a hot surface or an ember.

5.3. Advice for firefighters

Personal protective equipment	Use personal protective equipment as required.
Fire fighting procedures	Use water to keep fire exposed containers cool and disperse vapours. Cool containers exposed to flames with water until well after the fire is out. Water spray should be used to cool containers.
Special protective equipment for firefighters	Firefighters exposed to combustion gases/decomposition products should use a respiratory protective device.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Ensure adequate ventilation. Avoid contact with skin and eyes as well as inhalation of vapors from the product.
Personal protection measures	Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautionary measures	Do not contaminate water sources or sewer.

6.3. Methods and material for containment and cleaning up

Clean up	Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Dam and absorb spillage with sand, sawdust or other absorbent. Collect with non-combustible absorbent material. Flush with water. Dike for large spills.
Other information	Remember that all emissions of the product can pose a great risk of fire and explosion. Isolate emissions from all sources of ignition. Avoid static electricity.

6.4. Reference to other sections

Additional information	See section 8 for protective equipment information. See section 13 for waste disposal information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Take precautionary measures against static discharges. Keep away from heat, sparks and open flame.

Protective safety measures

Advice on general occupational hygiene	Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in tightly closed original container in a dry, cool and well-ventilated place. Keep out of reach of children.

7.3. Specific end use(s)

Specific use(s)	The identified uses for this product are detailed in Section 1.2. Contact supplier for more information.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Butane	CAS No.: 106-97-8	Limit value (8 h) : 600 ppm Limit value (8 h) : 1450 mg/m³ **Limit value (short term)** Value: 750 ppm **Limit value (short term)** Value: 1810 mg/m³ **Exposure limit letter**	

	Letter code: Carc
Control parameters comments	EH40/2005, Workplace exposure limits 2005, with amendments.

8.2. Exposure controls

Safety signs

Precautionary measures to prevent exposure

Technical measures to prevent exposure	Provide adequate general and local exhaust ventilation.

Eye / face protection

Eye protection, comments	Wear splash-proof eye goggles to prevent any possibility of eye contact.

Hand protection

Hand protection, comments	Use suitable protective gloves if risk of skin contact. Nitrile. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Skin protection

Skin protection remark	Wear appropriate clothing to prevent reasonably probable skin contact.

Respiratory protection

Respiratory protection, comments	Suitable respiratory protection must be used at high concentrations. Gas cartridge suitable for organic substances.

Hygiene / environmental

Specific hygiene measures	Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes wet or contaminated. Change work clothing daily if there is any possibility of contamination.

Appropriate environmental exposure control

Exposure controls, comments	Comply with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Fluid.
Colour	Clear
Odour	Characteristic. Bensin
Melting point / melting range	Value: < 50 °C

Boiling point / boiling range	Value: ~ 35 - 200 °C
Flash point	Value: -40 °C Method: CC - Closed Cup
Explosion limit	Value: 1 - 8 vol%
Vapour pressure	Value: 55 -65 kPa Temperature: 38 °C
Vapour density	Value: 3 -4 Test reference: Luft=1
Density	Value: 0,68 -0,72 g/cm³ Temperature: 20 °C
Solubility	Medium: Water Value: 100 - 300 g/m³ Comments: Miscible with: Organic solvents.
Partition coefficient: n-octanol/ water	Value: > 3
Auto-ignition temperature	Value: > 250 °C
Viscosity	Value: 0,6 -0,9 mm2/s Temperature: 40 °C

9.2. Other information

Other physical and chemical properties

Physical and chemical properties	Not entered.

9.2.2. Other safety characteristics

Comments	Not entered.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No specific, or groups of materials are likely to react to produce a hazardous situation.

10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Keep away from heat / sparks / open flames / hot surfaces. — No smoking.

10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition. Take precautionary measures against static discharge.

10.5. Incompatible materials

Materials to avoid	Strong oxidising substances.

10.6. Hazardous decomposition products

Hazardous decomposition products	During fire, toxic gases (CO, CO2) are formed. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Aldehydes (Elevated temperatures), Ketones (Elevated temperatures)

SECTION 11: Toxicological information

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

Acute toxicity	Type of toxicity: Acute Effect tested: LD50 Route of exposure: Oral Value: > 2000 mg/l Species: rat Comments: Nafta Type of toxicity: Acute Effect tested: LD50 Route of exposure: Dermal Value: > 2000 mg/kg Species: rabbit Comments: Nafta Type of toxicity: Acute Effect tested: LC50 Route of exposure: Inhalation. Species: Rat

Other information regarding health hazards

Inhalation	The solvent vapors are harmful and may cause headaches and nausea. Prolonged exposure to the praparation may cause serious health effects.
Skin contact	Acts as a defatting agent on skin. May cause cracking and eczema.
Eye contact	Irritating and may cause redness and pain. Vapour or spray may cause temporary (reversible) eye damage.
Ingestion	Aspiration hazard: Pneumonia may be the result if vomited material containing solvents reaches the lungs.
Aspiration hazard, hydrocarbon content	60 - 100 %
Aspiration hazard, comments	Risk of chemical pneumonia by aspiration.

11.2 Other information

Other information	Not entered.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity, algae	Toxicity type: Acute Value: > 100 mg/l Exposure time: 72 hour(s) Method: OECD 201 Test reference: Nafta
Aquatic toxicity, crustacean	Value: > 100 mg/l Exposure time: 48 hour(s) Method: OECD 202 Test reference: Nafta
Ecotoxicity	Low acute toxicity to aquatic organisms.

12.2. Persistence and degradability

Persistence and degradability description/evaluation	The product is not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulation, comments	The product contains potentially bioaccumulating substances.

12.4. Mobility in soil

Mobility	The product contains organic solvents which will evaporate easily from all surfaces. The product contains substances, which are bound to particulate matter and are withheld in the earth. The product is partly miscible with water and may spread in the aquatic environment.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	Not Classified as PBT/vPvB by current EU criteria.

12.6. Endocrine disrupting properties

Endocrine disrupting properties	Not known.

12.7. Other adverse effects

Additional ecological information	Not known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	Collect in marked containers and deliver to approved depot. Confirm disposal procedures with environmental engineer and local regulations.
EWC waste code	EWC waste code: 130702 petrol Classified as hazardous waste: Yes
EWL packing	EWC waste code: 150110 packaging containing residues of or contaminated by dangerous substances Classified as hazardous waste: Yes

SECTION 14: Transport information

Dangerous goods	Yes

14.1. UN number

ADR/RID/ADN	1203
IMDG	1203
ICAO/IATA	1203

14.2. UN proper shipping name

ADR/RID/ADN	MOTOR SPIRIT
IMDG	MOTOR SPIRIT
ICAO/IATA	MOTOR SPIRIT

14.3. Transport hazard class(es)

ADR/RID/ADN	3
IMDG	3
ICAO/IATA	3

14.4. Packing group

ADR/RID/ADN	II
IMDG	II
ICAO/IATA	II

14.5. Environmental hazards

ADR/RID/ADN	Ja
IMDG	Ja
ICAO/IATA	Ja

14.6. Special precautions for user

Special safety precautions for user	Not entered.

14.7. Maritime transport in bulk according to IMO instruments

ADR/RID Other information

Limited quantity	1 L
Hazard No.	33
Other applicable information ADR/RID	Tunnel restriction code: D/E

IMDG Other information

Additional information IMDG	-40 C, c.c.
EmS	F-E, S-E

SECTION 15: Regulatory information

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

References (laws/regulations)	Regulation 1272/2008/EEC. Classification, labelling and packing of dangerous substances and preparations. This Safety Data Sheet has been prepared in accordance with Directive (EU) 2015/830. Norwegian regulation of product registration. FOR-2015-05-19-541.
Legislation and regulations	EH40/2005, Workplace exposure limits 2005, with amendments.
Declaration No.	616286

15.2. Chemical safety assessment

Chemical safety assessment	Not entered.
Additional regulatory information	Not entered.

SECTION 16: Other information

Supplier's notes	The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user. The safety data sheet comply with regulations according to 1907/2006 / EC (REACH), including subsequent amendments.
List of relevant H-phrases (Section 2 and 3)	H220 Extremely flammable gas. H224 Extremely flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H340 May cause genetic defects H350 May cause cancer H413 May cause long lasting harmful effects to aquatic life.
Key literature references and sources for data	Concawe: Petroleum products-first aid emergency and medical advice. Report no. 1/ 97. Concawe: Product dossier no. 95/107, gas oils (diesel fuels/heating oils). Concawe: Hazard classification and labelling of petroleum substances in the European Economic Area - 2014.
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