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SAFETY DATA SHEET Aspen 4

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 25.10.2017

1.1. Product identifier

Product name Aspen 4
Synonyms Aspen 4t

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

Use of the substance / preparation

Relevant identified uses

SU1 Agriculture, forestry, fishery PC13 Fuels PROC16 Using material as fuel sources, limited exposure to unburned product to be expected. Industrial or non-industrial setting;

The chemical can be used by the general public

Fuel for gasoline engines.

SU1 Agriculture, forestry, fishery PC13 Fuels PROC16 Using material as fuel sources, limited exposure to unburned product to be expected. Industrial or non-industrial setting;

1.3. Details of the supplier of the safety data sheet

Distributor

Company name O & J Small Motor Service Office address NE 30-12-06 W2 Postal address P.O. Box 841 Postcode S0G 2S0 City Kipling, Saskatchewan Country Canada Telephone number +1-306-224-4513 Fax +1-306-224-4432 Email jlarose@sasktel.net Website http://smallmotorservice.ca/ Manufacturer Company name Lantmännen Aspen AB Postal address lberovägen 2 Postcode SE-438 54

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City Hindås

Country Sweden

Telephone number +46 (0)301-23 00 00

Email <u>info@aspen.se</u>

Website http://www.aspenfuels.com/

Contact person Mats Uhrlander, +46 (0)708-23 50 09

1.4. Emergency telephone number

Emergency telephone Telephone number: 1-800-424-9300

Description: CHEMTREC 24-hr North America

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to Regulation (EC) No 1272/2008

[CLP / GHS]

Flam. Liq. 1

Asp. tox 1

Skin Irrit. 2

STOT SE3

Aquatic Chronic 4

H224

H304

H315

H336

H413

2.2. Label elements

Hazard pictograms (CLP)







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

P102 Keep out of reach of children. P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P262 Do not get in eyes, on skin, or on clothing. P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/ . P331 Do NOT induce vomiting. P501 Dispose of

contents/container according to local regulations.

Tactile warnings

Yes

Child-protection

Yes

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2.3. Other hazards

Health effect In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Naphtha (petroleum), full-range alkylate, butane-contg.	CAS No.: 68527-27-5 EC No.: 271-267-0 REACH Reg. No.: 01- 2119471477-29-XXXX	Flam. Liq. 1; H224 Asp. tox 1; H304 Skin Irrit. 2; H315 STOT SE3; H336 Aquatic Chronic 2; H411	85 – 95 %
Naphtha (petroleum), isomerization	CAS No.: 64741-70-4 EC No.: 265-073-5 Index No.: 649-277-00-5 REACH Reg. No.: 01- 2119480399-24-XXXX	Flam. Liq. 1; H224 Asp. tox 1; H304 Skin Irrit. 2; H315 STOT SE3; H336 Aquatic Chronic 2; H411	5 – 15 %
Remarks, substance	Benzene level lower than 0,1 % The classification of the composition	6. onents is not supported by test re	esults on the mixture.

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Fire and explosion: Leave the zone of danger immediately and evacuate unnecessary personnel. Bring injured persons out of the zone of danger immediately. Beware of danger of shock in seemingly not-injured persons.
Inhalation	Fresh air and rest.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water.
Eye contact	Immediately rinse with water for several minutes. Make sure to remove any contact lenses from the eyes before rinsing.
Ingestion	DO NOT induce vomiting if swallowed chemical is dissolved in petroleum-based material. Danger of aspiration and development of chemical pneumonia. Get medical attention.

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

Information for health	Treat Symptomatically.
personnel	

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

Medical monitoring for delayed	No recommendation given.
effects	
Specific details on antidotes	Not applicable.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with foam, carbon dioxide or dry powder. Do not use water jet as an extinguisher,
	as this will spread the fire.

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5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards Highly flammable liquid and vapour.

5.3. Advice for firefighters

Fire fighting procedures

Containers close to fire should be removed immediately or cooled with water. Avoid water in straight hose stream; will scatter and spread fire. Be aware of risk of fire re-starting, and risk of explosion.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures

Do not smoke, use open fire or other sources of ignition. Ventilate well. In case of inadequate ventilation, use respiratory protection. Take precautionary measures against static discharges.

6.2. Environmental precautions

Environmental precautionary measures

Avoid discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material. Contact local authorities in case of spillage to drain/aquatic environment.

6.3. Methods and material for containment and cleaning up

Cleaning method	Remove sources of ignition. Beware of the explosion danger. Absorb in vermiculite, dry sand
	or earth and place into containers. Cover large spillages with foam.

6.4. Reference to other sections

Other instructions

None.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Flammable/combustible – Keep away from oxidisers, heat and flames. Take precautionary
	measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in tightly closed original container in a well-ventilated place. Store at temperature below 50°C. Flammable liquid storage.
Special risks and properties	Protect electric equipment against sparking in case of risk of explosion.
Other Information	Large amounts and storages should be stored in accordance with national regulation on storage of flammable liquids.
Conditions to avoid	Keep away from heat, sparks and open flame.

Conditions for safe storage

Advice on storage compatability

Keep flammable liquids away from flammable gas and highly flammable goods. Flammability

class: 1.

Canada: Class IB liquid.

7.3. Specific end use(s)

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

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Other Information about threshold limit values

OEL Sweden. Alkylate gasoline.

Exposure guidelines Country of origin: Sweden

> Limit value type: OEL, 8h, TWA (8h): 900 mg/m3 Source: AFS 2015:7

DNEL / PNEC

DNFL Group: Worker

Route of exposure: Short term (acute) - Inhalation - Systemic effect

Value: 1300 mg/m3/15 min

Group: Worker

Route of exposure: Long term (repeated) - Inhalation - Local effect

Value: 840 mg/m3/8h

8.2. Exposure controls

Recommended monitoring procedures

Environmental Exposure Controls: VOC.

Safety signs





Precautionary measures to prevent exposure

exposure

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

Eye / face protection

Eye protection Wear approved chemical safety goggles where eye exposure is reasonably probable.

Hand protection

Hand protection For prolonged or repeated skin contact use suitable protective gloves.

Suitable gloves type Neoprene, nitrile, polyethylene or PVC.

Respiratory protection

Respiratory protection No specific recommendation made, but respiratory protection may still be required under

exceptional circumstances when excessive air contamination exists.

Recommended type of

equipment

Chemical respirator with organic vapour cartridge.

Additional respiratory

All handling to take place in well-ventilated area.

protection measures

Reference to relevant standard A.

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Hygiene / environmental

Specific hygiene measures Promptly remove non-impervious clothing that becomes wet.

DO NOT SMOKE IN WORK AREA!

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Clear liquid.

Colour Colourless.

Odour Kerosene.

pH Status: In delivery state

Comments: Not applicable.

Status: In aqueous solution Comments: Not applicable.

Melting point / melting range Comments: Not applicable.

Boiling point / boiling range Value: 35 – 195 °C

Method: EN ISO 3405

Test reference: Boiling range

Comments: Boiling point is 75 °C as defined by NFPA® 30.

Flash point Value: < 0 °C

Evaporation rate Value: > 1000

Method: BuAc=100

Lower explosion limit with unit

of measurement

1 vol-%

Upper explosion limit with units

of measurement

8 vol-%

Vapour pressure Value: 55 – 65 kPa

Method: EN 13016-1 Temperature: = 38 °C

Vapour density Value: > 1

Reference gas: Air

Specific gravity Value: 690 – 720 kg/m3

Method: EN ISO 12185

Solubility description Very soluble in: Hydrocarbons.

Solubility in water 1-6 mg/l at 1-10 % concentration.

Partition coefficient: n-

octanol/water

Value: 4,3 – 4,8

Comments: Calculated value for mixture.

Spontaneous combustability Value: > 300 °C

Viscosity Value: < 1 mm2/s

Temperature: = 40 °C

9.2. Other information

Physical hazards

Flammable liquids Yes.

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Conductivity Value: = 400 pS/m

Method: SS-ISO 6297-1998 Temperature: = 20 °C

Gas group Comments: IIA.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Possibility of hazardous

No recommendation given.

reactions

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong oxidising substances.

10.6. Hazardous decomposition products

Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Type of toxicity: Acute

Effect tested: LD50 Route of exposure: Oral Value: > 5000 mg/kg bw

Species: Rat

Test reference: OECD TG 401 Comments: Data for CAS 68527-27-5.

Type of toxicity: Acute Effect tested: LD50 Route of exposure: Dermal Value: > 5610 mg/m3 air

Species: Rat

Test reference: OECD 403

Comments: Data for CAS 68527-27-5.

Type of toxicity: Acute Effect tested: LD50 Route of exposure: Dermal Value: > 2000 mg/kg bw

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Species: Rabbit

Test reference: OECD TG 402 Comments: Data for CAS 68527-27-5.

Other information regarding health hazards

General Risk of chemical pneumonia after aspiration. Prolonged or repeated contact leads to drying of

skin. Solvent vapours are hazardous and may cause nausea, sickness and headaches.

Inhalation In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and

nausea.

Skin contact Product has a defatting effect on skin.

Eye contact Not Irritating.

Ingestion Harmful: may cause lung damage if swallowed.

Irritation Causes skin irritation.

Sensitisation None.

Mutagenicity No known chronic or acute health risks. No known chronic or acute health risks.

Carcinogenicity, other

information

Teratogenic properties No known chronic or acute health risks. Reproductive toxicity No known chronic or acute health risks.

Symptoms of exposure

Symptoms of overexposure Mild intoxication (incl. fatigue, lassitude, irritability, headache, nausea).

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic, fish Value: > 100 mg/l

> Test duration: 96h Species: Danio rerio

Method: OECD TG no. 203 (2004) Test reference: Test report 046/13. Comments: LL50. Data for mixture.

Acute aquatic, algae Value: > 100 mg/l

Test duration: 72h

Species: Raphidoceles subcapitata

Method: OECD TG no. 202

Test reference: Test report 182/06. Comments: EL50. Data for mixture.

Acute aquatic, Daphnia Value: > 1000 mg/l

> Test duration: 48h Species: Daphnia Magna Method: OECD Tg no. 201 Test reference: Test report 31/04. Comments: EL50. Data for mixture.

12.2. Persistence and degradability

Chemical oxygen demand Comments: Not known.

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(COD)

Biological oxygen demand

(BOD)

Persistence and degradability,

comments

Comments: Not known.

Volatile substances are degraded in the atmosphere within a few days. The product is degraded completely by photochemical oxidation. The product has not proven to be degradable under anaerobic conditions.

12.3. Bioaccumulative potential

Bioaccumulative potential

Bioaccumulation is unlikely to be significant because of the low water solubility of this product.

Bioconcentration factor (BCF)

Value: 4,3 - 4,8 Method: Log Kow

Comments: Calculated value for mixture.

12.4. Mobility in soil

Mobility

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. The product is insoluble in water and will spread on the water surface.

12.5. Results of PBT and vPvB assessment

PBT assessment results

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

Other adverse effects,

comments

WATER HAZARD CLASSIFICATION: 2 (WGK).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal

Make sure containers are empty before discarding (explosion risk). Vent to atmosphere.

Relevant waste regulation

SFS 2011:927

Product classified as hazardous waste

Yes

Packaging classified as

No

hazardous waste EWC waste code

EWC: 130702 petrol

EWC: 150102 plasticpackaging EWC: 150104 metallicpackaging

SECTION 14: Transport information

14.1. UN number

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

14.2. UN proper shipping name

ADR / RID / ADN

GASOLINE

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IMDG	GASOLINE
ICAO / IATA	GASOLINE

14.3. Transport hazard class(es)

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

14.4. Packing group

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

14.5. Environmental hazards

14.6. Special precautions for user

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

ADR / RID - Other information

ADR additional information	(D/E)
Hazard No.	33
RID other applicable information	(D/E)

IMDG / ICAO / IATA Other information

IMDG Additional information	-18 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

15.2. Chemical safety assessment

Chemical safety assessment
performed

INC

SECTION 16: Other information

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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.
List of relevant H-phrases (Section 2 and 3)	H413 May cause long lasting harmful effects to aquatic life. H304 May be fatal if swallowed and enters airways. H336 May cause drowsiness or dizziness. H315 Causes skin irritation. H224 Extremely flammable liquid and vapour. H411 Toxic to aquatic life with long lasting effects.
Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	; H224; ; H304; ; H315; ; H336; ; H413;
Key literature references and sources for data	Test report 31/04. Aspen 4T, Daphnia magna immobilisation test. Toxicon AB (2004). Test report 182/06. Toxicity testing of Aspen 4T, Algae growth inhibition test. Toxicon AB (2007). Test report 07-25. Evaluation of the aerobic biodegradability of organic compounds 182/06 (Aspen 4T). AnoxKaldnes AB (2007). Examination essay. Diffusion of alkylate petrol during discharge in the environment. Gunilla Henriksson, Annalena Tåmt (2004). Test report 046/13. Aspen 4. Fish, acute toxicity test. Toxicon AB (2013). Kemiska Ämnen. Prevent AB (2013).
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