



SAFETY DATA SHEET

Aspen D

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 27.12.2016

1.1. Product identifier

Product name Aspen D

Extended SDS with ES incorporated No

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

Use of the substance/preparation Fuel for diesel engines and diesel heaters.

Relevant identified uses
 SU21 Consumer uses: Private households (= general public = consumers)
 SU22 Professional uses: publicly accessible (administration, education, entertainment, services, craftsmen)
 PC13 Fuels

PROC1 Use in closed process, no likelihood of exposure

PROC2 Use in closed, continuous process with occasional controlled exposure

PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

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 Yes

1.3. Details of the supplier of the safety data sheet

Distributor

Company name Small Motor Service

Office address NE 30-12-06 W2

Postal address P.O. Box 841

Postcode S0G 2S0

City Kipling, Saskatchewan

Country Canada

Tel +1-306-224-4513

Fax +1-306-224-4432

E-mail jlarose@sasktel.net

Website <http://smallmotorservice.ca/>

Manufacturer

Company name Lantmännen Aspen AB

Postal address Iberovägen 2

Postcode SE-438 54

City Hindås

Country Sweden

Tel +46 (0)301-23 00 00

E-mail	info@aspen.se
Website	http://www.aspenfuels.com/
Contact person	Mats Uhrlander, +46 (0)708-23 50 09

1.4. Emergency telephone number

Emergency telephone	CHEMTREC 24-hr North America:1-800-424-9300
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SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to	Asp. tox 1;
Regulation (EC) No 1272/2008	H304;
[CLP/GHS]	EUH 066;

2.2. Label elements

Hazard Pictograms (CLP)



Signal word	Danger
Hazard statements	H304 May be fatal if swallowed and enters airways. EUH 066 Repeated exposure may cause skin dryness or cracking.
Precautionary statements	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician. P331 Do NOT induce vomiting. P501 Dispose of contents/container according to local regulations.
Child-protection	Yes
Tactile warnings	Yes

2.3. Other hazards

Description of hazard	Harmful: may cause lung damage if swallowed.
Health effect	Degreasing to skin.
Environmental effects	Oil spills are generally hazardous to the environment. The hazardous properties of the product in the environment are considered to be limited.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Renewable hydrocarbons (diesel type fraction)	CAS no.: 928771-01-1 (outside EU) EC no.: 618-882-6 Registration number: 01-2119450077-42-XXXX	Asp. tox 1;H304; EUH 066;	85 - 95 % wt/wt
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC no.: 926-141-6 Registration number: 01-2119456620-43-XXXX	Asp. tox 1;H304; EUH 066;	5 - 15 % wt/wt
Remarks, substance	CAS 92877-01-01 named "Alkanes, C10-20, branched and linear" (outside EU).		

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Wash contaminated clothing before reuse.
Inhalation	Fresh air and rest. In case of persistent throat irritation or coughing or after inhalation of oil mist: Seek medical attention and bring along these instructions.

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 personnel Treat Symptomatically.

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

Medical monitoring for delayed effects No recommendation given.

Specific details on antidotes Not relevant.

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.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards Heating may cause a fire.

Hazardous combustion products Carbon monoxide (CO).

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

General measures Eliminate all ignition sources if safe to do so. Collect spillage.

Personal protection measures Do not smoke, use open fire or other sources of ignition. Avoid inhalation of oil mist and contact with skin and eyes. In case of spills, beware of slippery floors and surfaces.

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 Absorb in vermiculite, dry sand or earth and place into containers. Do not absorb in sawdust or other combustible materials.

6.4. Reference to other sections

Other instructions Section 8, 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling Flammable/combustible - Keep away from oxidisers, heat and flames. Avoid spilling, skin and eye contact. Take precautionary measures against static discharges.

Protective Safety Measures

Safety Measures To Prevent fire Do not spray on an open flame or other ignition source. Keep away from heat / sparks / open flames / hot surfaces. — No smoking.

Advice on general occupational Provide access to washing facilities incl. soap, skin cleanser, barrier cream

hygiene and fatty cream.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in tightly closed original container in a well-ventilated place. Flammable liquid storage. Keep flammable liquids away from flammable gas and highly flammable goods.
Other Information	Large amounts and storages should be stored in accordance with national regulation on storage of flammable liquids. Flammability class: 3
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.
Storage Temperature	Value: < 50 C

7.3. Specific end use(s)

Specific use(s)	The identified uses for this product are detailed in Section 1.2.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure limit values

Substance	Identification	Value	TWA Year
Renewable hydrocarbons (diesel type fraction)	CAS no.: 928771-01-1 (outside EU) EC no.: 618-882-6 Registration number: 01-2119450077-42-XXXX		

DNEL / PNEC from substances

Substance	Renewable hydrocarbons (diesel type fraction)
DNEL	Group: Worker Exposure route: Dermal Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 42 mg/kg/day
DNEL	Group: Worker Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 147 mg/m ³

DNEL / PNEC

Exposure guidelines	Country of origin: Sweden Limit value type: OEL, 8h, 350 mg/m ³ Source: AFS 2015:7 Comments: Diesel fuel Mk 1.
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8.2. Exposure controls

Limitation of exposure on workplace	Provide access to washing facilities incl. soap, skin cleanser and fatty cream.
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Safety signs



Respiratory protection

Respiratory protection	Under normal conditions of use respiration protection should not be required.
Recommended type of equipment	Chemical respirator with organic vapour cartridge.
Reference to relevant standard	EN140, EN 141.

Mask type	Use respiratory equipment with gas filter, type A2.
Additional respiratory protection measures	Provide sufficient ventilation during operations which cause vapour formation.

Hand protection

Hand protection	For prolonged or repeated skin contact use suitable protective gloves.
Reference to relevant standard	EN 374, EN 420.
Suitable materials	Nitrile. Neoprene. Polyvinyl chloride (PVC).

Eye / face protection

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

Skin protection (except hands)	Wear appropriate clothing to prevent any possibility of skin contact.
Protective clothing necessary properties	Wash contaminated clothing before reuse.

Hygiene / Environmental

Specific hygiene measures	Use appropriate hand lotion to prevent defatting and cracking of skin. Remove contaminated clothing and wash the skin thoroughly with soap and water after work.
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Exposure controls

Safety measures for consumer use of the chemical	If medical advice is needed, have product container or label at hand.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Clear liquid.
Colour	Orange.
Odour	Oil smell.
Comments, Odour limit	Not known.
Comments, pH (as supplied)	Not relevant.
Comments, pH (aqueous solution)	Not relevant.
Comments, Melting point / melting range	Data lacking.
Boiling point / boiling range	Value: 180-360 °C Method of testing: EN ISO 3405 Test reference: Boiling range
Comments, Boiling point / boiling range	Boiling point is about 250-255 °C as defined by NFPA® 30.
Flash point	Value: ≥ 61 °C Method of testing: EN ISO 2719
Evaporation rate	Value: < 0,01 Method of testing: BuAc=1
Flammability (solid, gas)	Data lacking.
Comments, Explosion limit	Data lacking.
Vapour pressure	Value: < 0,1 kPa Test temperature: = 20 °C
Vapour density	Value: > 1 Reference gas: Air
Specific gravity	Value: 765-800 kg/m3 Method of testing: EN ISO 12185 Test temperature: = 15 °C
Comments, Bulk density	Not relevant.
Solubility description	Very soluble in: Hydrocarbons.
Solubility in water	Data lacking.
Solubility in fat	Data lacking.

Partition coefficient: n-octanol/water	Value: > 6,5
Comments, Partition coefficient: n-octanol / water	EG 618-882-6.
Spontaneous combustability	Value: > 200 °C
Comments, Decomposition temperature	Data lacking.
Viscosity	Value: 2-4 mm ² /s Method of testing: EN ISO 3104 Test temperature: = 40 °C
Explosive properties	Ingen.
Oxidising properties	None.

9.2. Other information

Cloud point	Value: ≤ -26 °C Method: SS-EN 23015
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Physical hazards

Flammable liquids	Ja.
Conductivity	Value: > 25 pS/m Method of testing: ASTM D2624 Test temperature: = 20 °C

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Heating may cause a fire.
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10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Do not spray on an open flame or other ignition source.
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10.4. Conditions to avoid

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

Materials to avoid	Strong oxidising substances.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological data for substances

Substance	Renewable hydrocarbons (diesel type fraction)
LD50 oral	Value: > 2000 mg/kg Animal test species: Rat
LD50 dermal	Value: > 2000 mg/kg Animal test species: Rat

Other information regarding health hazards

General	Risk of chemical pneumonia after aspiration. Repeated exposure may cause skin dryness or cracking.
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Potential acute effects

Inhalation	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Skin contact	Product has a defatting effect on skin.
Eye contact	Slightly Irritating.

Ingestion	Harmful: may cause lung damage if swallowed.
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Delayed effects / repeated exposure

Sensitisation	None.
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Carcinogenic, Mutagenic or Reprotoxic

Carcinogenicity	No known chronic or acute health risks.
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Mutagenicity	No known chronic or acute health risks.
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Teratogenic properties	No known chronic or acute health risks.
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Reproductive toxicity	No known chronic or acute health risks.
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SECTION 12: Ecological information

12.1. Toxicity

Toxicological data for substances

Substance	Renewable hydrocarbons (diesel type fraction)
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Acute aquatic, fish	Value: > 1000 mg/l Method of testing: WAF, OECD 203. LL50 96h.
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Acute aquatic, algae	Value: > 100 mg/l Method of testing: WAF, OECD 201. EL50 72h.
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Acute aquatic, Daphnia	Value: > 100 mg/l Method of testing: WAF, OECD 202. EL50 48h.
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Substance	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics
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Acute aquatic, fish	Value: > 1000 mg/l Species: Oncorhynchus mykiss Duration: 96h
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Acute aquatic, algae	Value: > 1000 mg/l Species: Pseudokirchneriella subcapita Duration: 72h
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Acute aquatic, Daphnia	Value: > 1000 mg/l Species: Daphnia magna Duration: 48h
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Biodegradability	Value: 69 % Test period: 28 dagar
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12.2. Persistence and degradability

Biodegradability	Value: > 60 % Method of testing: OECD 301B
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Comments, Biodegradability	EG 618-882-6, EG 926-141-6.
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Comments COD	Not known.
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Comments, BOD	Not known.
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Persistence and degradability	All organic components are considered biodegradable. The product is degraded completely by photochemical oxidation. The product has not proven to be degradable under anaerobic conditions.
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12.3. Bioaccumulative potential

Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.
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Bioconcentration factor (BCF)	Value: > 6,5 Method of testing: Log Kow
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Comments, BCF	EG 618-882-6.
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12.4. Mobility in soil

Mobility	The product contains substances, which are insoluble in water and which may spread on water surfaces.
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12.5. Results of PBT and vPvB assessment

PBT assessment results	Not Classified as PBT/vPvB by current EU criteria.
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12.6. Other adverse effects

Other adverse effects / Remarks	Water hazard classification : 2 (WGK).
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Collect spillage. INCINERATE.
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Product classified as hazardous waste	Yes
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Packaging classified as hazardous waste	No
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EWC waste code	EWC: 130701 fuel oil and diesel EWC: 150102 plasticpackaging
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National regulations	SFS 2011:927
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SECTION 14: Transport information

14.1. UN number

ADR / RID / ADN	1202
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RID	1202
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IMDG	1202
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ICAO/IATA	1202
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14.2. UN proper shipping name

ADR	DIESEL FUEL
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RID	DIESEL FUEL
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IMDG	DIESEL FUEL
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ICAO/IATA	DIESEL FUEL
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14.3. Transport hazard class(es)

ADR / RID / ADN	3
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RID	3
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IMDG	3
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ICAO/IATA	3
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14.4. Packing group

ADR	III
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RID	III
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IMDG	III
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ICAO/IATA	III
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14.5. Environmental hazards

IMDG Marine pollutant	No.
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14.6. Special precautions for user

RID Other applicable information	(D/E)
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IMDG Additional information	≥ 61 °C, c.c.
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EmS	F-E, S-E
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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Product name	Not entered.
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Ship type required	Not determined.
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Pollution category	Not determined.
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ADR / RID - Other information

ADR additional information	(D/E)
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Tunnel restriction code	(D/E).
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Limited Quantity	5L.
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Hazard no.	30
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SECTION 15: Regulatory information

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

References (laws/regulations)	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, including amendments.
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15.2. Chemical safety assessment

Chemical safety assessment performed	No
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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.
Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	; EUH 066; ; H304;
List of relevant H-phrases (Section 2 and 3).	H304 May be fatal if swallowed and enters airways. EUH 066 Repeated exposure may cause skin dryness or cracking.
Important data sources used to construct the safety data sheet	Suppliers MSDS's. Own testing.
Information which has been added, deleted or revised	Change to Sections: 1. Replaces 02.12.2016.
Version	1
URL for technical data	http://www.aspen.se
Responsible for safety data sheet	Lantmännen Aspen AB
Prepared by	Lantmännen Aspen AB