

**SAFETY DATA SHEET**

Revision Date: 07.11.2016

Print Date: 10.12.2018

SDS Number: R0718336

Version: 1.2

Aquaflex™ FX-64 polymer  
 ™ Trademark, Ashland or its subsidiaries, registered  
 in various countries  
 826232

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS\_GB

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name : Aquaflex™ FX-64  
 polymer  
 ™ Trademark, Ashland or its subsidiaries, registered in  
 various countries

**1.2 Recommended use of the chemical and restrictions on use**

Use of the Substance/Mixture : Personal care

**1.3 Details of the supplier of the safety data sheet**

Ashland  
 P.O. Box 8619  
 NL3009 AP, Rotterdam  
 Netherlands  
 +31 10 497 5000 (in the Netherlands), or  
 contact your local CSR contact person

EUSMT@ashland.com

**1.4 Emergency telephone number**

00-800-274-5263-3/001-859-357-3564, or contact  
 your local emergency telephone number at 111 -  
 ENG, SCO, CYM and 0808 808 8000 - NIE (Mo -  
 Fr, 08.00 - 18.00)

**Product Information**

+31 10 497 5000 (in the Netherlands), or contact  
 your local CSR contact person

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Flammable liquids, Category 3

H226: Flammable liquid and vapour.

Eye irritation, Category 2

H319: Causes serious eye irritation.

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)**

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Hazard pictograms



Signal word

: Warning

Hazard statements

: H226  
H319Flammable liquid and vapour.  
Causes serious eye irritation.

Precautionary statements

: **Prevention:**  
P210Keep away from heat, hot surfaces, sparks,  
open flames and other ignition sources. No  
smoking.

P280

Wear protective gloves/ eye protection/ face  
protection.**Response:**P303 + P361 + P353 IF ON SKIN (or hair): Take off  
immediately all contaminated clothing.  
Rinse skin with water/shower.

P337 + P313

If eye irritation persists: Get medical advice/  
attention.

P370 + P378

In case of fire: Use dry sand, dry chemical  
or alcohol-resistant foam to extinguish.**Storage:**

P403 + P235

Store in a well-ventilated place. Keep cool.

**2.3 Other hazards****Additional advice**

No information available.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Ethanol	64-17-5 200-578-6	Flam. Liq.2; H225 Eye Irrit.2; H319	>= 40 - < 50

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01-2119457610-43-xxxx

For explanation of abbreviations see section 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

- General advice : Move out of dangerous area.  
 Call a POISON CENTRE or doctor/physician if exposed or  
 you feel unwell.  
 Show this safety data sheet to the doctor in attendance.  
 Do not leave the victim unattended.
- If inhaled : Move to fresh air.  
 If unconscious place in recovery position and seek medical  
 advice.  
 Consult a physician after significant exposure.
- In case of skin contact : If on skin, rinse well with water.  
 First aid is not normally required. However, it is  
 recommended that exposed areas be cleaned by washing  
 with soap and water.  
 If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
 Remove contact lenses.  
 Protect unharmed eye.
- If swallowed : Do not give milk or alcoholic beverages.  
 Never give anything by mouth to an unconscious person.  
 If symptoms persist, call a physician.

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

- Symptoms : Signs and symptoms of exposure to this material through  
 breathing, swallowing, and/or passage of the material through  
 the skin may include:  
 stomach or intestinal upset (nausea, vomiting, diarrhea)  
 irritation (nose, throat, airways)  
 Cough  
 confusion  
 irregular heartbeat

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respiratory failure

**Risks**

: Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material.  
 Causes serious eye irritation.

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

Treatment : No hazards which require special first aid measures.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
 Water spray  
 Foam  
 Alcohol-resistant foam  
 Carbon dioxide (CO<sub>2</sub>)  
 Dry chemical

Unsuitable extinguishing media : High volume water jet

**5.2 Special hazards arising from the substance or mixture**

Specific hazards during firefighting : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.  
 Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
 Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : carbon dioxide and carbon monoxide  
 formaldehyde-like  
 Hydrocarbons

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**5.3 Advice for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
 Use a water spray to cool fully closed containers.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Evacuate personnel to safe areas.  
 Remove all sources of ignition.  
 Ensure adequate ventilation.  
 Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
 Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.  
 Comply with all applicable federal, state, and local regulations.  
 Suppress (knock down) gases/vapours/mists with a water spray jet.

**6.2 Environmental precautions**

Environmental precautions : Prevent product from entering drains.  
 Prevent further leakage or spillage if safe to do so.  
 If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3 Methods and material for containment and cleaning up**

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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**6.4 Reference to other sections**

For further information see Section 8 and Section 13 of the safety data sheet.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

- Advice on safe handling : Open drum carefully as content may be under pressure.  
 Avoid formation of aerosol.  
 Provide sufficient air exchange and/or exhaust in work rooms.  
 Do not breathe vapours/dust.  
 Do not smoke.  
 Container hazardous when empty.  
 Take precautionary measures against static discharges.  
 Avoid exposure - obtain special instructions before use.  
 Avoid contact with skin and eyes.  
 Smoking, eating and drinking should be prohibited in the application area.  
 For personal protection see section 8.  
 Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). No sparking tools should be used. Keep away from open flames, hot surfaces and sources of ignition. Use only explosion-proof equipment.
- Hygiene measures : Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke.

**7.2 Conditions for safe storage, including any incompatibilities**

- Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. No smoking. Electrical installations / working materials must comply with the technological safety standards.
- Other data : No decomposition if stored and applied as directed.

**7.3 Specific end use(s)**

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Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Ethanol	64-17-5	TWA	1.000 ppm 1.920 mg/m <sup>3</sup>	EH40 WEL

### 8.2 Exposure controls

#### Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

#### Personal protective equipment

Eye protection : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

#### Hand protection

Material : neoprene  
nitrile rubber

#### Remarks

: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

#### Skin and body protection

: Wear as appropriate:  
 impervious clothing  
 Safety shoes  
 Flame-resistant clothing  
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Respiratory protection

: In the case of vapour formation use a respirator with an approved filter.

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Appearance	: viscous
Colour	: yellow
Odour	: No data available
Odour Threshold	: No data available
pH	: 5,0 - 7,0, 50
Melting point/freezing point	: No data available
Boiling point/boiling range	: No data available
Flash point	: 40,5 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: 0,9 g/cm3
Solubility(ies)	
Water solubility	: No data available
Solubility in other solvents	: No data available



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Partition coefficient: n-octanol/water : No data available

Thermal decomposition : No data available

Viscosity  
 Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

**9.2 Other information**

No data available

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No decomposition if stored and applied as directed.

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : Vapours may form explosive mixture with air.

**10.4 Conditions to avoid**

Conditions to avoid : Heat, flames and sparks.

excessive heat

**10.5 Incompatible materials**

Materials to avoid : Acids  
 Alkali metals  
 Ammonia  
 Bases  
 halogens  
 inorganic materials  
 Oxidizing agents  
 sodium

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**10.6 Hazardous decomposition products**

Hazardous decomposition products : carbon dioxide and carbon monoxide  
 formaldehyde-like  
 Hydrocarbons

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Information on likely routes of exposure : Inhalation  
 Skin contact  
 Eye Contact  
 Ingestion

**Acute toxicity**

Not classified based on available information.

**Product:**

Acute oral toxicity : LD 50 (Rat): > 5.000 mg/kg

**Components:****ETHANOL:**

Acute oral toxicity : LD 50 (Rat): 7.060 mg/kg

Acute inhalation toxicity : LC 50 (Rat): 117 - 125 mg/l  
 Exposure time: 4 h

LC 50 (Mouse): 39 mg/l  
 Exposure time: 4 h

Acute dermal toxicity : LD Lo (Rabbit): 20 g/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

Result: Not irritating to skin

Result: Repeated exposure may cause skin dryness or cracking.

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Remarks: May cause skin irritation in susceptible persons.

**Components:****ETHANOL:**

Result: Slightly irritating to skin

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Product:**

Result: Irritating to eyes

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

**Components:****ETHANOL:**

Result: Irritating to eyes

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Product:**

Remarks: Patch test on human volunteers did not demonstrate sensitisation properties.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**Components:****ETHANOL:**

Assessment: May cause drowsiness or dizziness.

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**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Further information****Product:**

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

**SECTION 12: Ecological information****12.1 Toxicity****Components:**

Ethanol

Toxicity to fish : LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss)): 12.000 - 16.000 mg/l  
 Exposure time: 96 h  
 Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (Daphnia magna)): > 10.000 mg/l  
 Exposure time: 48 h  
 Test Type: static test

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: The bioaccumulation potential cannot be determined.

**Components:**

Ethanol

Partition coefficient: n-octanol/water : log Pow: -0,31



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**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

Not relevant

**12.6 Other adverse effects****Product:**

Additional ecological information : No data available

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

- Product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

**SECTION 14: Transport information****SECTION 14: Transport information****14.1 UN number****ADR:** UN1866**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** UN1866**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** UN1866**INTERNATIONAL MARITIME DANGEROUS GOODS:** UN1866**RID:** UN1866



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#### 14.2 UN proper shipping name

**ADR:** RESIN SOLUTION

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Resin solution

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Resin solution

**INTERNATIONAL MARITIME DANGEROUS GOODS:** RESIN SOLUTION

**RID:** RESIN SOLUTION

#### 14.3 Transport hazard class(es)

**ADR:** 3

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** 3

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** 3

**INTERNATIONAL MARITIME DANGEROUS GOODS:** 3

**RID:** 3

#### 14.4 Packing group

**ADR:** III

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** III

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** III

**INTERNATIONAL MARITIME DANGEROUS GOODS:** III

**RID:** III

#### 14.5 Environmental hazards

**ADR:** Not applicable

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not applicable

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not applicable

**RID:** Not applicable

**:** Not applicable

#### 14.6 Special precautions for user

Not applicable

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

Ship Type: Not applicable

Hazard code(s): Not applicable

Pollutant Category: Not applicable

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 57) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Ethanol

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
P5c	FLAMMABLE LIQUIDS	5.000 t	50.000 t

**The components of this product are reported in the following inventories:**

TSCA : This product is regulated under the United States Food and Drug Act (FDA).

DSL All components of this product are on the Canadian DSL.

AUSTR On the inventory, or in compliance with the inventory

NZIOC Not in compliance with the inventory

ENCS Personal care

KECL Personal care

PICCS Not in compliance with the inventory

IECSC q (quantity restricted)

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**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**15.2 Chemical Safety Assessment**

No data available

**SECTION 16: Other information****Further information**

Revision Date: 07.11.2016

**Full text of H-Statements referred to under sections 2 and 3.**

H225 Highly flammable liquid and vapour.  
 H319 Causes serious eye irritation.

**Further information**

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (+31 10 497 5000).

Sources of key data used to compile the Safety Data Sheet

Ashland internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction



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FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

LDxx : Lethal Dose, for xx percent of test population.

ICxx : Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx

N.O.S.: Not Otherwise Specified

OECD : Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit

P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL : Short-term exposure limit

STOT : Specific Target Organ Toxicity

TLV : Threshold Limit Value

TWA : Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL : Workplace Exposure Level

ABM : Water Hazard Class for the Netherlands

ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.

ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine

CLP : Classification, Labelling and Packaging

CSA : Chemical Safety Assessment

CSR : Chemical Safety Report

DNEL : Derived No Effect Level.

EINECS : European Inventory of Existing Commercial Chemical Substances.

ELINCS : European List of Notified Chemical Substances

GV: Exposure limits (DK)

PEC : Predicted Effect Concentration

PEL : Permissible Exposure Limits


PNEC : Predicted No Effect Concentration

R-phrases : Risk phrase

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulation Concerning the International Transport of Dangerous Goods by Rail

S-phrases: Safety phrase

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WGK : German Water Hazard Class