# SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

of the mixture

LP™ Winter Flow Improver

Registration number

**Synonyms** None

19-April-2017 Issue date

Version number

27-December-2021 **Revision date** Supersedes date 13-July-2021

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

**Identified uses** Flow Improver.

Uses advised against Other uses are not recommended unless an assessment is completed, prior to commencement of

that use, which demonstrates that the use will be controlled.

1.3. Details of the supplier of the safety data sheet

Only Representative of a

non-Community Manufacturer

Penman Consulting Limited

**Address** Aspect House,

> Wayland Avenue Grove Business Park Wantage, Oxon **OX12 9FF** United Kingdom

+44(0) 1367 718 474 Telephone

E-mail pcltd02@penmanconsulting.com

Manufacturer LiquidPower Specialty Products Inc.

**Address** 2103 CityWest Blvd.

**Suite 1400** 

Houston, TX 77042

Telephone 1.713.339.8703 or 1.800.897.2774

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number

+1 800.424.9300 (USA)

**CHEMTREC UK** +44 870 820 0418

+44 203 807 3798

# **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

## Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

#### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms None. Signal word None.

**Hazard statements** The mixture does not meet the criteria for classification.

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**Prevention** Observe good industrial hygiene practices.

**Response** Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Supplemental information on

the label

None

2.3. Other hazards This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

The components are not hazardous or are below required disclosure limits.

#### **SECTION 4: First aid measures**

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.

**Eye contact** Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.. Most important symptoms Direct contact with eyes may cause temporary irritation.

4.2. Most important symptoms and effects, both acute and

delayed

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

Treat symptomatically.

# **SECTION 5: Firefighting measures**

**General fire hazards**No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media

None known.

5.2. Special hazards arising from the substance or mixture

Closed containers can burst violently when heated, due to excess pressure build-up.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

5.3. Advice for firefighters

Special protective equipment for firefighters

Special fire fighting

procedures

Move containers from fire area if you can do it without risk.

**Specific methods**Use standard firefighting procedures and consider the hazards of other involved materials.

#### **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Wear appropriate personal protective equipment.

For emergency responders Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

SDS.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product

recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

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## **SECTION 7: Handling and storage**

7.1. Precautions for safe

handling

Avoid prolonged exposure. Ensure adequate ventilation. Observe good industrial hygiene

practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10

of the SDS).

7.3. Specific end use(s) Flow Improver.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

# Occupational exposure limits

<b>UK. EH40 Workplace Exposure Limits</b>	(WFI s	١
OIX. Elito Workplace Exposure Ellints	(**	,

Components	Туре	Value	Form
Propane -1,2 -diol (CAS 57-55-6)	TWA	474 mg/m3	Total vapour and particulates.
		10 mg/m3	Particulate.
		150 ppm	Total vapour and particulates.

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no effect levels

(DNELs)

Not available.

Predicted no effect

concentrations (PNECs)

Not available

**Exposure guidelines** 

Follow standard monitoring procedures.

8.2. Exposure controls

Appropriate engineering

controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

levels below recommended exposure limits.

#### Individual protection measures, such as personal protective equipment

**General information** Use personal protective equipment as required. Personal protective equipment should be chosen

according to the CEN standards and in discussion with the supplier of the personal protective

equipment.

Eye/face protection

Risk of contact: Wear approved safety goggles. Eye protection should meet standard EN 166.

Skin protection - Hand protection

are recommended.

- Other

If prolonged or repeated contact is likely, chemical resistant clothing is recommended.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In case of inadequate ventilation or when

Use suitable protective gloves if risk of skin contact. Neoprene, butyl rubber, nitrile or Viton gloves

the product is heated, use suitable respiratory equipment with gas filter (type A2).

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be

3/7

cleaned.

**Environmental exposure** 

controls

Environmental manager must be informed of all major releases.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

**Appearance** 

**Physical state** Liquid. **Form** Liquid. Colour White. Mild. Odour

**Odour threshold** Not available. 10 - 12.4 рΗ -10 °C (14 °F) Melting point/freezing point

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range

Flash point Not applicable.

Evaporation rate Same as water.

Flammability (solid, gas) Not applicable. Not flammable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not applicable.

Explosive limit - upper Not applicable.

(%)

Vapour pressure 23.8 mmHg (25°C)

Vapour density < 1 (Air = 1)

**Relative density** 0.84 - 0.97 (25°C / 77°F)

Solubility(ies)

Solubility (water) Disperses completely.

Partition coefficient Property has not been measured.

(n-octanol/water)

Auto-ignition temperature Property has not been measured.

Decomposition temperature Property has not been measured.

Viscosity 50 - 200 cP 511s-1 (Non-Newtonian) (25°C)

**Explosive properties**Not explosive. **Oxidising properties**Not oxidising.

9.2. Other information

Kinematic viscosity Property has not been measured.

## **SECTION 10: Stability and reactivity**

**10.1. Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

**10.2. Chemical stability** Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**10.4. Conditions to avoid**Contact with incompatible materials. Extreme temperatures.

**10.5. Incompatible materials** Strong oxidising agents.

10.6. Hazardous No hazardous decompos

decomposition products

No hazardous decomposition products are known.

## **SECTION 11: Toxicological information**

**General information** No adverse effects are expected.

Information on likely routes of exposure

InhalationNo adverse effects due to inhalation are expected.Skin contactNo adverse effects due to skin contact are expected.Eye contactDirect contact with eyes may cause temporary irritation.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Symptoms Exposure may cause temporary irritation, redness, or discomfort.

#### 11.1. Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

**Skin corrosion/irritation**No information available on the mixture. However, none of the components are classified in

respect of this hazard (or are present at a level below the concentration threshold for

classification).

Serious eye damage/eye

irritation

No information available on the mixture. However, none of the components are classified in respect of this hazard (or are present at a level below the concentration threshold for

classification).

Respiratory sensitisation No information available on the mixture. However, none of the components are classified in

respect of this hazard (or are present at a level below the concentration threshold for

classification).

**Skin sensitisation**No information available on the mixture. However, none of the components are classified in

respect of this hazard (or are present at a level below the concentration threshold for

classification).

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Germ cell mutagenicity

No information available on the mixture. However, none of the components are classified in

respect of this hazard (or are present at a level below the concentration threshold for

classification).

Carcinogenicity No information available on the mixture. However, none of the components are classified in

respect of this hazard (or are present at a level below the concentration threshold for

classification)

Reproductive toxicity

No information available on the mixture. However, none of the components are classified in

respect of this hazard (or are present at a level below the concentration threshold for

classification).

Specific target organ toxicity -

single exposure

No information available on the mixture. However, none of the components are classified in respect of this hazard (or are present at a level below the concentration threshold for

classification).

Specific target organ toxicity -

repeated exposure

No information available on the mixture. However, none of the components are classified in respect of this hazard (or are present at a level below the concentration threshold for

classification).

Aspiration hazard
Mixture versus substance

information

Not an aspiration hazard. The product is a mixture.

Other information

None known.

# **SECTION 12: Ecological information**

**12.1. Toxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.2. Persistence and

degradability

No data available.

**12.3. Bioaccumulative potential** No data available. **Bioconcentration factor (BCF)** Not available.

12.4. Mobility in soil
12.5. Results of PBT and vPvB

assessment

This product is water soluble and may disperse in soil.

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

12.6. Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

**Residual waste** Dispose in accordance with local regulations. Empty containers or liners may retain some product

residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

EU waste code 16 03 06

This material, if discarded as produced, would not be considered as hazardous waste pursuant to

Directive 2008/98/EC on hazardous waste, and directive 75/442/EEC on waste.

This code has been assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste generators/producers are responsible for assessing the actual process used when generating the waste and it's contaminants in order to

assign the proper waste disposal code.

Disposal methods/information Waste material from this product should not be exposed to waste streams or sumps containing

any concentration of hydrocarbon. This will cause formation of gelled substances that may plug pipes. Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**Special precautions** Dispose in accordance with all applicable regulations.

#### **SECTION 14: Transport information**

**ADR** 

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

**ADN** 

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

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#### **IMDG**

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk

Not applicable.

according to Annex II of MARPOL 73/78 and the IBC

Code

# **SECTION 15: Regulatory information**

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

#### **Retained direct EU regulations**

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

#### **Authorisations**

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended

Not listed.

#### Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

#### Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

#### Other regulations

This product is classified and labelled in accordance with the retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain. This Safety Data Sheet is compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK

15.2. Chemical safety

A Chemical Safety Assessment is not required for this substance.

assessment

References

#### **SECTION 16: Other information**

REACH Regulations SI 2019/758.

List of abbreviations

PBT: Persistent, bioaccumulative, toxic.

TWA: Time weighted average.

vPvB: very Persistent, very Bioaccumulative. HSDB® - Hazardous Substances Data Bank

IARC Monographs. Overall Evaluation of Carcinogenicity

EPA: AQUIRE database

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation

methods and test data, if available.

Full text of any H-statements not written out in full under

None.

Sections 2 to 15

**Training information** Follow training instructions when handling this material.

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