# SAFETY DATA SHEET

## 1. Identification

**Product identifier** LP™ 100 Flow Improver

Other means of identification

Recommended use of the chemical and restrictions on use

Recommended use Flow Improver.

**Recommended restrictions** Other uses are not recommended unless an assessment is completed, prior to commencement of

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

Manufacturer/Importer/Supplier/Distributor information

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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+1 800.424.9300 (USA)

# 2. Hazards identification

Physical hazards Not classified. Not classified. **Health hazards Environmental hazards** Not classified.

Label elements

None. **Hazard symbol** None. Signal word

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

**Precautionary statement** 

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Store away from incompatible materials. Storage

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

Other hazards which do not

result in classification

None known.

**Supplemental information** None.

# 3. Composition/information on ingredients

#### **Mixture**

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

### 4. 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.

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

symptoms/effects, acute and

delayed

Indication of immediate

medical attention and special treatment needed

Treat symptomatically.

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

protect themselves.

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## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

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

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

General fire hazards No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials 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. For waste disposal, see section 13 of the SDS. **Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling Ensure adequate ventilation. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in a closed container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

**Biological limit values** 

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

**Exposure guidelines** 

No exposure standards allocated.

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

Risk of contact: Wear approved safety goggles. Eye/face protection

Skin protection

Use suitable protective gloves if risk of skin contact. Hand protection

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

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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

cleaned.

#### 9. Physical and chemical properties

**Appearance** 

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

**Odour threshold** Not available. 10 - 12.4 pН Melting point/freezing point 0 °C (32 °F)

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range

Flash point Not applicable.

Evaporation rate Same as water.

Flammability (solid, gas) Not flammable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Property has not been measured.

Explosive limit - upper Property has not been measured.

(%)

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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)

Other information

**Explosive properties** Not explosive.

**Kinematic viscosity** Property has not been measured.

Oxidising properties Not oxidising.

# 10. Stability and reactivity

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

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

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidising agents.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

## 11. Toxicological information

Information on likely routes of exposure

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

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

# 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 or skin sensitisation

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** Not an aspiration hazard.

Chronic effects None known.

**Further information** This product has no known adverse effect on human health. None known.

## 12. Ecological information

**Ecotoxicity**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.

Persistence and degradability No data available.

Bioaccumulative potential No data available.

Mobility in soil This product is dispersible in water. Expected to be mobile in soil.

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.

## 13. Disposal considerations

**Disposal instructions**Waste material from this product should not be exposed to waste streams or sumps containing

Dispose in accordance with all applicable regulations.

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.

Local disposal regulations

Waste from residues / unused

products

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.

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.

# 14. Transport information

#### ΙΔΤΔ

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not applicable.

the IBC Code

## 15. Regulatory information

Safety, health and environmental regulations specific for the product in question

Bahrain. Chemicals Subject to the Prior Informed Consent Procedure under the Rotterdam Convention (Law No. 14 of 2012, Annex III)

Not applicable.

Bahrain. CWC Chemical Substances (Decree No. 6 of 1997, Schedules 1, 2 and 3; Law No. 51 of 2009)

Not listed.

Bahrain. Prohibited Chemicals (Ministry of State for Municipal & Environmental Affairs, Resolution No 7 of 2002, On Control of Importing & Use of Prohibited & Restricted Chemicals, Table 1)

Not listed

Bahrain. Severely Restricted Chemicals (Ministry of State for Municipal & Environmental Affairs, Resolution No 7 of 2002, On Control of Importing & Use of Prohibited & Restricted Chemicals, Table 2)

Not listed.

Egypt. Non-Restricted Substances (Unified list of hazardous substances, List C)

Not listed.

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#### Oman. List of Prohibited Chemical Substances (MD 25/2009. Annex 2)

Not listed

Oman. List of Restricted Chemical Substances (MD 25/2009. Annex 1)

Not listed

Saudi Arabia. Jubail & Yanbu. Hazardous Air Pollutants (Royal Commission for Jubail & Yanbu Environmental Regulations, V.1. 2004, Table 2C)

Not listed.

UAE. Abu Dhabi. CWC (Chemicals Weapons Convention) Banned from Entry/Import (Standard Operating Procedures for Permitting of Chemicals and Hazardous Materials)

Not listed.

UAE. Abu Dhabi. Narcotic Precursors Banned from Entry/Import (Standard Operating Procedures for Permitting of Chemicals and Hazardous Materials)

Not listed.

UAE. Ban on Importing and Circulation of Harmful Pesticides for Health and Environment (Ministerial Decree No. 193)

Not listed.

UAE. Dubai. CWC (Chemicals Weapons Convention) Federal Environmental Agency, Code of Practice

UAE. Dubai. Illicit Drug Traffic, scheduled substances (UN Convention against illicit traffic in narcotic drugs and psychotropic substances), Ministry of Health, Code of Practice

Not listed

UAE. Dubai. Prohibited and restricted imports. Ministry of Environmental and Water, Code of Practice

Not listed.

#### International regulations

### **Stockholm Convention**

Not applicable.

#### **Rotterdam Convention**

Not applicable.

#### **Montreal Protocol**

Not applicable.

# **Kyoto Protocol**

Not applicable.

## **Basel Convention**

Not applicable.

#### International Inventories

Country(s) or region

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Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
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<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Inventory name

Issue date 19-April-2017
Revision date 14-April-2023

Version No. 02

LP™ 100 Flow Improver SDS Middle East

On inventory (ves/no)\*

## Disclaimer

LiquidPower Specialty Products Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

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