# SAFETY DATA SHEET

## 1. Identification

**Product identifier** LP™ 100 Flow Improver

Other means of identification None.

Recommended use of the chemical and restrictions on use

Recommended use Flow Improver.

**Recommended restrictions** Other uses are not recommended unless an assessment demonstrates potential exposures will be

controlled.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer LiquidPower Specialty Products Inc.

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#### 2. Hazards identification

**GHS** classification

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

# GHS label elements, including precautionary statements

**Pictograms** None. Signal word None. **Hazard statements** None.

**Precautionary statements** 

Prevention Observe good industrial hygiene practices.

Wash hands after handling. Response

**Storage** Store away from incompatible materials.

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

Substance or mixture 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.

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

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

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

symptoms/effects, acute and

delayed

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937133 Version #: 03 Revision date: 31-March-2020 Issue date: 19-April-2017 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.

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.

Fire fighting equipment/instructions

Specific methods

Special protective equipment

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

and precautions for firefighters

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

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

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.

**Environmental precautions** Methods and materials for containment and cleaning up Avoid discharge into drains, water courses or onto the ground.

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.

7. Handling and storage

Precautions for safe handling Avoid prolonged exposure. Ensure adequate ventilation. Observe good industrial hygiene

practices.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store away from incompatible materials (see Section 10

of the SDS).

8. Exposure controls/personal protection

Control parameters/Occupational

exposure limits

No exposure limits noted for ingredient(s).

Follow standard monitoring procedures. No exposure standards allocated. **Exposure guidelines** 

Appropriate engineering control measures

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

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

Skin protection

Use suitable protective gloves if risk of skin contact. Suitable gloves can be recommended by the Hand protection

glove supplier.

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

Respiratory protection In case of inadequate ventilation, use respiratory protection. 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. **Form** Liquid. Color White.

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**Odor threshold** Not available. 10 - 12.3 Melting point/freezing point 32 °F (0 °C) 212 °F (100 °C) Initial boiling point and boiling

range

Not applicable. Flash point **Evaporation rate** Same as water. Flammability (solid, gas) Not applicable. Flammability limit - lower (%) Not applicable. Flammability limit - upper (%) Not applicable. Vapor pressure 23.8 mmHg (25°C)

Vapor density < 1 ( Air=1)

Relative density 0.84 - 0.97 (15.6°C)

Solubility(ies)

Disperses completely. Solubility (water)

**Partition coefficient** (n-octanol/water)

Not available.

**Auto-ignition temperature** Not available. Not available. **Decomposition temperature** 

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

Other data

**Explosive properties** Not explosive. Oxidizing properties Not oxidizing

# 10. Stability and reactivity

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

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

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

# Information on likely routes of exposure

Inhalation No adverse effects due to inhalation are expected. No adverse effects due to skin contact are expected Skin contact Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

**Acute toxicity** Not expected to be acutely toxic.

**Symptoms** Direct contact with eyes may cause temporary irritation.

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 sensitization

Respiratory sensitization 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 sensitization 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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No information available on the mixture. However, none of the components are classified in Germ cell mutagenicity

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

classification).

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

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

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

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).

Not an aspiration hazard. **Aspiration hazard** 

**Chronic effects** None known. No data available. Relevant negative data Other information 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. No data available. Bioaccumulative potential Mobility in soil No data available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

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

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.

# 14. Transport information

**ADR** 

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

**ADN** 

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and

the IBC Code

## 15. Regulatory information

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

Controlled Narcotic Drugs (Misuse of Drugs Act, First Schedule, Part I, II & III)

Not regulated.

Controlled Specified Drugs (Misuse of Drugs Act, Fourth Schedule)

Prior Informed Consent (PIC) Substances (Environment Protection and Management Act, 2nd Schedule, Part 1, Jul. 1, 2013)

Not regulated.

**Chemical Weapons Prohibition (Act)** 

Not applicable.

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### **Environmental Protection and Management (Hazardous Substances) Regulations**

Inventory name

#### **Environmental Public Health Act**

Not applicable.

#### International regulations

#### **Montreal Protocol**

Not applicable.

#### **Stockholm Convention**

Not applicable.

#### **Rotterdam Convention**

Not applicable.

## **Kyoto protocol**

Not applicable.

### **Basel Convention**

Not applicable.

Country(s) or region

## **International Inventories**

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
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

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

### 16. Other information

United States & Puerto Rico

References Not available.

Issued by

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Not available. Prepared by

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.

Issue date 19-April-2017 **Revision date** 31-March-2020 Key/legend Not applicable.

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Yes

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).