# Liquic Power FLOW IMPROVERS

# SAFETY DATA SHEET

#### 1. Identification

GHS product identifier LP™ 100 Flow Improver

Version No. 02

Issue date19-April-2017Revision date30-December-2021Supersedes date30-December-2021

CAS No. Mixture

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

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## 2. Hazards identification

**GHS** classification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

**GHS** label elements

Signal word None. Hazard symbols None.

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

**Precautionary statement** 

**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.

Other hazards which do not result in classification

None known.

Supplemental information

n None.

# 3. Composition/information on ingredients

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

# 4. First aid measures

First aid procedures

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

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

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

IngestionRinse mouth. Get medical attention if symptoms occur.Most important symptoms andDirect contact with eyes may cause temporary irritation.

effects, both acute and delayed

Notes to physician Treat symptomatically.

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

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.

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

Protection of fire-fighters

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

#### 6. Accidental release measures

Personal precautions

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

**Environmental precautions** 

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

**Methods for containment** Methods for cleaning up

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. 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

Handling

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

ventilation.

Storage

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** 

Follow standard monitoring procedures. No exposure standards allocated.

Recommended monitoring

procedures

Follow standard monitoring procedures.

**Engineering controls** 

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Personal protective equipment

Eye/face protection

Risk of contact: Wear approved safety goggles.

Skin protection

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.

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

# 9. Physical and chemical properties

**Appearance** 

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

Odour threshold Not available. 10 - 12.4 Melting point/freezing point 0 °C (32 °F) 100 °C (212 °F) Initial boiling point and boiling

range

Not applicable. Flash point Same as water. **Evaporation rate** Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Explosive limit - lower (%)

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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 (n-octanol/water)

Property has not been measured.

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.

Particle size Not applicable.

#### 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

Routes of exposureIngestion. Skin contact. Eye contact.Toxicological informationNo adverse effects are expected.Acute toxicityNot 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 sensitiser 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).

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.

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May irritate eyes and skin. Local effects

None known. **Chronic effects** 

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

No data available. **Human experience** 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.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. **Environmental effects** 

Persistence and degradability No data available. No data available. **Bioaccumulation** Not classified. **Aquatic toxicity** 

**Mobility** This product is miscible 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 methods 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.

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 (see: Disposal

instructions).

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

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

disposal.

# 14. Transport information

#### **ADR**

Not regulated as dangerous goods.

**RID** 

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to

**IMO** instruments

Not applicable.

#### 15. Regulatory information

#### **International Inventories**

Country(s) or region	Inventory name On	inventory (yes/no)*
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)	No
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
*A "Voo" indicates that all components of this product comply with the inventory requirements administered by the governing country(a)		

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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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

#### **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.

#### List of abbreviations

LC50: Lethal Concentration, 50%.

LD50: Lethal Dose, 50%.

vPvB: very Persistent, very Bioaccumulative.

TWA: Time weighted average. STEL: Short term exposure limit. TLV: Threshold Limit Value.

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