

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

Husqvarna Power 4

of the mixture

Registration number

None. **Synonyms**

Product code 589 22 79-01 (1L), 589 95 29-04 (5L), 589 95 59-02 (25L), 589 22 79-40 (200L)

25-April-2016 Issue date

01 Version number **Revision date** Supersedes date

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

None known.

Identified uses Petrol for 4-stroke engine.

Uses advised against 1.3. Details of the supplier of the safety data sheet Manufacturer/Supplier Husqvarna AB **Address** Drottninggatan 2 +46 (0)36-14 65 00 **Telephone Contact person Accessory Department** sds.info@husqvarna.se e-mail

1.4. Emergency telephone

+1-760-476-3961 (Access code 333721)

number

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

Physical hazards

Flammable liquids Category 1 H224 - Extremely flammable liquid

and vapour.

Health hazards

Skin corrosion/irritation Category 2 H315 - Causes skin irritation. Specific target organ toxicity - single Category 3 narcotic effects H336 - May cause drowsiness or

exposure

dizziness.

Aspiration hazard Category 1 H304 - May be fatal if swallowed

and enters airways.

Environmental hazards

Hazardous to the aquatic environment, Category 4 H413 - May cause long lasting harmful effects to aquatic life. long-term aquatic hazard

May be ignited by heat, sparks or flames. May be fatal if swallowed and enters airways. May **Hazard summary**

cause drowsiness and dizziness. Causes skin irritation. Dangerous for the environment if

discharged into watercourses.

2.2. Label elements

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

Low boiling point naphtha (Gasoline) Contains:

Hazard pictograms



Signal word Danger

Hazard statements

Extremely flammable liquid and vapour. H224

Material name: Husqvarna Power 4 - Husqvarna - 589 22 79-01

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H413 May cause long lasting harmful effects to aquatic life.

Precautionary statements

Prevention

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing mist or vapour.
P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.

Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331 Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use appropriate media to extinguish.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P235 Keep cool. P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information None.

2.3. Other hazards Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Naphtha (petroleum), full-range alkylate, butane-contg.	67 - 74	68527-27-5 271-267-0	01-2119471477-29-0018	649-282-00-2	
	Liq. 1;H224, Asp nic 2;H411	. Tox. 1;H304, Skin	Irrit. 2;H315, STOT SE 3;H336	S, Aquatic	
Hydrocarbons, C >= 5, C5-6-Ric Low boiling point naphtha - unspecified	ch; 26 - 33	68476-50-6 270-690-8	01-2119489866-14-0003	649-401-00-8	

Classification: Flam. Lig. 1;H224, Asp. Tox. 1;H304, Skin Irrit. 2;H315, STOT SE 3;H336, Aquatic

Chronic 2;H411

List of abbreviations and symbols that may be used above

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The product is an alkylate gasoline. The following compounds may be present: Benzene (CAS 71-43-2) <0.1% v/v; n-hexane (CAS 110-54-3) <0.5% v/v; aromatic hydrocarbons <0.5% v/v.

Composition comments The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the

material(s) involved, and take precautions to protect themselves. Wash contaminated clothing

before reuse.

4.1. Description of first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTRE or doctor/physician if you feel unwell.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation

occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Get medical attention if irritation develops and persists.

Ingestion Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

4.2. Most important symptoms and effects, both acute and delayed Aspiration may cause pulmonary oedema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Direct contact with eyes may cause temporary irritation. Skin irritation. May cause redness and pain.

4.3. Indication of any Prov

immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards Extremely flammable liquid and vapour.

5.1. Extinguishing media

Suitable extinguishing

media

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

Unsuitable extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters

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

Special fire fighting procedures

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do

so 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

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.

For emergency responders

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

6.3. Methods and material for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. 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.

Material name: Husqvarna Power 4 - Husqvarna - 589 22 79-01

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapour. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see section 10 of the SDS)

7.3. Specific end use(s)

Petrol for 4-stroke engine.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values

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

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no-effect level (DNEL)

Components	Туре	Route	Value	Form
Low boiling point naphtha (Gasoline)	Consumer	Inhalation	640 mg/m³/15min	Acute exposure local effects
		Inhalation	1200 mg/m³/15min	Acute exposure systemic effects
		Inhalation	180 mg/m³/24h	Long term exposure local effects
	Workers	Inhalation	1300 mg/m³/15min	Acute exposure systemic effects
			1100 mg/m³/15min	Acute exposure local effects
			840 mg/m³/8h	Long term exposure local effects

Predicted no effect concentrations (PNECs)

Not available.

8.2. Exposure controls

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

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

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

equipment.

Eye/face protection
Skin protection

Chemical respirator with organic vapour cartridge and full facepiece.

- Hand protection Wear appropriate chemical resistant gloves. Select suitable chemical resistant protective gloves

(EN 374) with a protective index 6 (>480min permeation time). Polyvinyl alcohol or nitrile-butyl

rubber gloves. Suitable gloves can be recommended by the glove supplier.

Other Wear appropriate chemical resistant clothing.

Respiratory protection Chemical respirator with organic vapour cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures When using do not smoke. 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.

Environmental exposure

controls

Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Liquid.

Form Mobile. Liquid.

Colour Clear.

Odour Hydrocarbon. Mild.
Odour threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling

range

30 - 200 °C (86 - 392 °F)

Flash point $< 0 \, ^{\circ}\text{C} \, (< 32.0 \, ^{\circ}\text{F})$

Evaporation rate
Not available.
Flammability (solid, gas)
Not applicable.
Upper/lower flammability or explosive limits

Flammability limit - lower 7.6 %

(%)

Flammability limit - upper 1.4 %

(%)

Vapour pressure 50 - 65 kPa (38 °C)

Vapour density > 3 Air = 1

Relative density $0.68 - 0.72 (15.4 \,^{\circ}\text{C})$ Solubility(ies) $< 50 \,\mu\text{g/l} (20 \,^{\circ}\text{C})$ Partition coefficient Log Kow: >3

(n-octanol/water)

Auto-ignition temperature 400 °C (752 °F) approx.

Decomposition temperature Not available.

Viscosity < 1 mm²/s (kinematic) (38 °C)

Explosive properties Not explosive.

Oxidising properties Not oxidising. Does not meet the criteria as an oxidizer.

9.2. Other information No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. ReactivityThe 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 avoidAvoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous No hazardous decomposition products are known.

decomposition products

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting.

Skin contact Causes skin irritation.

Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia.

Symptoms Aspiration may cause pulmonary oedema and pneumonitis. May cause drowsiness and dizziness.

Headache. Nausea, vomiting. Skin irritation. May cause redness and pain.

11.1. Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. Narcotic effects.

Components **Species Test results** Low boiling point naphtha (Gasoline) (CAS -) Acute Dermal LD50 Rabbit > 2000 mg/kg Inhalation LC50 Rat > 5.2 mg/lOral LD50 Rat > 5000 mg/kg Causes skin irritation. Skin corrosion/irritation Serious eye damage/eye Direct contact with eyes may cause temporary irritation. irritation Respiratory sensitisation Due to partial or complete lack of data the classification is not possible. Skin sensitisation Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met.

Reproductive toxicity

Specific target organ toxicity -

May cause drowsiness and dizziness.

Species

Specific target organ toxicity - repeated exposure

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

Aspiration hazard May be fatal if swallowed and enters airways.

Mixture versus substance

information

Product

Carcinogenicity

single exposure

No information available.

Other information No additional adverse health effects noted.

SECTION 12: Ecological information

12.1. Toxicity May cause long lasting harmful effects to aquatic life.

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Husqvarna Power 4			
Aquatic			
Algae	NOEC	Pseudokirchneriella subcapitata	100 mg/l, 72 Hours OECD 201, ref. report 081/15
Crustacea	NOEC	Daphnia magna	100 mg/l, 48 Hours OECD 202, ref. report 086/15
Acute			
Algae	EC50	Pseudokirchneriella subcapitata	> 100 mg/l, 72 Hours OECD 201, ref. report 081/15
Crustacea	EC50	Daphnia magna	> 100 mg/l, 48 Hours OECD 202, ref. report 086/15

12.2. Persistence and degradability

Expected to be inherently biodegradable.

12.3. Bioaccumulative potential

Partition coefficient
n-octanol/water (log Kow)

Husqvarna Power 4 > 3 (Log Kow)

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT

Not a PBT or vPvB substance or mixture.

and vPvB assessment

12.6. Other adverse effects The product contains volatile substances, which may spread in the atmosphere.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of 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).

Test results

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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 codeThe Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number UN1203 **14.2. UN proper shipping** GASOLINE

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Hazard No. (ADR) 33
Tunnel restriction code D/E
14.4. Packing group II
14.5. Environmental hazards No.

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

RID

14.1. UN number UN1203 **14.2. UN proper shipping** GASOLINE

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
14.4. Packing group II
14.5. Environmental hazards No.

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

ADN

14.1. UN number UN1203 **14.2. UN proper shipping** GASOLINE

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
14.4. Packing group II
14.5. Environmental hazards No.

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

IATA

14.1. UN number UN1203 **14.2. UN proper shipping** Gasoline

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk
14.4. Packing group II

14.5. Environmental hazards No.
ERG Code 3H

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

IMDG

14.1. UN number UN1203 **14.2. UN proper shipping** GASOLINE

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk 14.4. Packing group II
14.5. Environmental hazards
Marine pollutant No.

Marine pollutant No. EmS F-E, S-E

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

14.7. Transport in bulk Not applicable.

according to Annex II of Marpol

and the IBC Code

SECTION 15: Regulatory information

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

EU regulations

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

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I 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.

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 Not listed.

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 authorization, 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.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

Not listed.

Other EU regulations

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

Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

Hydrocarbons, C >= 5, C5-6-Rich; Low boiling point naphtha - unspecified (CAS 68476-50-6)

Naphtha (petroleum), full-range alkylate, butane-contg. (CAS 68527-27-5)

Directive 94/33/EC on the protection of young people at work, as amended

Hydrocarbons, C >= 5, C5-6-Rich; Low boiling point naphtha - unspecified (CAS 68476-50-6)

Naphtha (petroleum), full-range alkylate, butane-contg. (CAS 68527-27-5)

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

96/82/EC (Seveso II) Directive; Part 2 (Classified Substances) - Extremely Flammable

National regulations Follow national regulation for work with chemical agents.

Young people under 18 years old are not allowed to work with this product according to EU

Directive 94/33/EC on the protection of young people at work, as amended

15.2. Chemical safety

assessment

Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

PBT: Persistent, bioaccumulative and toxic. vPvB: Very Persistent and very Bioaccumulative.

EC50: Effective Concentration, 50%. NOEC: No observed effect concentration. CEN: European Committee for Standardisation.

References ECHA registered substances 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 Sections 2 to 15

H224 Extremely flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Training information

Disclaimer

Follow training instructions when handling this material.

Husqvarna AB 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.