



# SAFETY DATA SHEET

## 1. Identification

<b>Product identifier</b>	<b>Husqvarna XP® Synthetic</b>
<b>Other means of identification</b>	
<b>Product code</b>	578 18 03-03 (0.1L), 578 18 03-07 (0.1L), 578 03 70-03 (1L), 578 03 71-03 (4L), 578 18 00-03 (10L), 578 18 04-03 (208L)
<b>Recommended use of the chemical and restrictions on use</b>	
<b>Recommended use</b>	Lubrication of 2-stroke engine.
<b>Restrictions on use</b>	Use in accordance with supplier's recommendations.
<b>Details of manufacturer or importer</b>	
<b>Manufacturer</b>	
<b>Supplier</b>	Husqvarna Australia Pty Ltd
<b>Address</b>	4 Pioneer Avenue, Tuggerah NSW 2252
<b>Country</b>	Australia
<b>Telephone</b>	+61 2 4352 7400
<b>e-mail</b>	mike.enderby@husqvarnagroup.com
<b>Contact</b>	Mike Enderby
<b>Emergency</b>	Contact Poisons Information Centre; phone 13 12 26

## 2. Hazard(s) identification

### Classification of the hazardous chemical

<b>Physical hazards</b>	Flammable liquids	Category 4
<b>Health hazards</b>	Not classified.	
<b>Environmental hazards</b>	Not classified.	

### Label elements, including precautionary statements

<b>Hazard symbol(s)</b>	None.
<b>Signal word</b>	Warning
<b>Hazard Statement(s)</b>	Combustible liquid.
<b>Precautionary Statement(s)</b>	
<b>Prevention</b>	Keep away from flames and hot surfaces-No smoking. Wear protective gloves/eye protection/face protection.
<b>Response</b>	In case of fire: Use appropriate media for extinction.
<b>Storage</b>	Store in a well-ventilated place. Keep cool.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards which do not result in classification** None known.

**Supplemental information** None.

## 3. Composition/information on ingredients

### Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	10 - 25
Hydrotreated light paraffinic distillate	64742-55-8	2 - 5
Phenol, butenylated aminated polymer	-	0 - <2.5

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

### Description of necessary first aid measures

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Call a physician if symptoms develop or persist.

**Skin contact** Immediately remove contaminated clothing. Wash with soap and water. Continue to rinse for at least 15 minutes. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these instructions. If high pressure injection under the skin occurs, always seek medical attention.

**Eye contact** Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids wide apart. If irritation persists: Continue flushing during transport to hospital. Take along these instructions.

**Ingestion** Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get immediate medical attention.

**Personal protection for first-aid responders** If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**Symptoms caused by exposure** May cause redness and pain. Defatting of the skin. Dermatitis. May cause eye irritation on direct contact. Ingestion may cause irritation and malaise. Vapours may cause drowsiness and dizziness. In high concentrations, mists/vapors may irritate throat and respiratory system and cause coughing.

**Medical attention and special treatment** Provide general supportive measures and treat symptomatically. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. Symptoms may be delayed. HIGH PRESSURE SKIN INJECTION: Physician must be familiar with local procedures for treatment of this type of wound; incision, irrigation, removal of all necrotic tissue and open wound dressing.

## 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** Foam. Dry powder. Carbon dioxide (CO<sub>2</sub>). Water fog.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical** The product is combustible, and heating may generate vapours which may form explosive vapour/air mixtures. By heating and fire, irritating vapours/gases may be formed.

**Special protective equipment and precautions for fire fighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

**Fire fighting equipment/instructions** Move container from fire area if it can be done without risk. Use water spray to cool unopened containers. Cool containers exposed to flames with water until well after the fire is out.

**Hazchem Code** None.

**General fire hazards** Heating may generate vapours which may form explosive vapour/air mixtures. Material will float and can be re-ignited on surface of water. Combustible liquid.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). In case of spills, beware of slippery floors and surfaces. Avoid breathing mist or vapour. Avoid contact with skin and eyes. Wear protective clothing as described in section 8 of this safety data sheet.

**For emergency responders** Keep unnecessary personnel away. Wear protective clothing as described in Section 8 of this safety data sheet.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not allow to enter drains, sewers or watercourses. Environmental manager must be informed of all major releases.

**Methods and materials for containment and cleaning up**

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

Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Wash area with soap and water.

Small Spills: Absorb spillage with non-combustible, absorbent material. Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS. Clean up in accordance with all applicable regulations.

**Other issues relating to spills and releases****7. Handling and storage****Precautions for safe handling**

Keep away from open flames, hot surfaces and sources of ignition. The product is combustible. Heating will generate vapours which may form explosive vapour/air mixtures. Ground container and transfer equipment to eliminate static electric sparks. Use only in well-ventilated areas. Avoid breathing mists or vapours. Avoid contact with skin, eyes and clothing. Wear protective clothing as described in Section 8 of this safety data sheet. Wash contaminated clothing before reuse. Be aware of potential for surfaces to become slippery. Do not eat, drink or smoke when using the product. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**

Keep away from ignition, flame and heat sources. Keep container tightly closed. Store in a cool, dry, well-ventilated place. Store away from incompatible materials. Store locked up.

**8. Exposure controls and personal protection****Control parameters**

Follow standard monitoring procedures.

**Occupational exposure limits****Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)**

Components	Type	Value
Mineral oil mist (CAS -)	TWA	5 mg/m <sup>3</sup>

**Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)**

Components	Type	Value	Form
Mineral oil mist (CAS -)	TWA	5 mg/m <sup>3</sup>	Mist.

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
Mineral oil mist (CAS -)	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.

**Biological limit values**

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

**Appropriate engineering controls**

Provide adequate ventilation and minimise the risk of inhalation of vapours. Use explosion-proof equipment. Provide easy access to water supply and eye wash facilities.

**Individual protection measures, for example personal protective equipment (PPE)****Eye/face protection**

Risk of contact: Wear safety glasses with side shields (or goggles).

**Skin protection****Hand protection**

Wear protective gloves. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

**Other**

Wear appropriate clothing to prevent repeated or prolonged skin contact.

**Respiratory protection**

In case of inadequate ventilation or risk of inhalation of oil mist, suitable respiratory equipment with particulate filter and organic vapor cartridges can be used. Wear air-supplied mask in confined areas.

**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. When using, do not eat, drink or smoke. Launder contaminated clothing before reuse. Private clothes and working clothes should be kept separately.

## 9. Physical and chemical properties

### Appearance

Physical state	Liquid.
Form	Liquid.
Colour	Blue.
Odour	No data available.
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	-39 °C (-38.2 °F)
Initial boiling point and boiling range	Not available.
Flash point	88.0 °C (190.4 °F)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	< 110 kPa
Vapour density	Not available.
Relative density	0.896 (20 °C) ( Water = 1)
Solubility(ies)	
Solubility (water)	Insoluble in water.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	39 mm <sup>2</sup> /s (40 °C)
Other physical and chemical parameters	
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

## 10. Stability and reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Conditions to avoid	Heat, sparks, flames, elevated temperatures. Contact with incompatible materials.
Incompatible materials	Strong oxidising agents. Strong acids.
Hazardous decomposition products	By heating and fire, irritating vapours/gases may be formed. Carbon oxides.

## 11. Toxicological information

### Information on possible routes of exposure

Inhalation	Vapours may cause drowsiness and dizziness. Breathing of high concentrations may cause dizziness, light-headedness, headache, nausea and loss of co-ordination. Continued inhalation may result in unconsciousness.
Skin contact	May be irritating to the skin. Prolonged or repeated contact may dry skin and cause dermatitis.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Ingestion may cause irritation and malaise. Ingestion may result in vomiting; aspiration (breathing) of vomitus into lungs must be avoided as even small quantities may result in aspiration pneumonitis.

**Symptoms related to exposure** May cause redness and pain. Defatting of the skin. Dermatitis. May cause eye irritation on direct contact. Ingestion may cause irritation and malaise. Vapours may cause drowsiness and dizziness. In high concentrations, mists/vapors may irritate throat and respiratory system and cause coughing.

**Acute toxicity** Human evidence indicates that the product has very low acute oral, dermal or inhalation toxicity. However, it can produce severe injury if taken into the lung as a liquid, and there may be profound central nervous system depression following prolonged exposure to high levels of vapour.

Product	Species	Test results
Husqvarna XP® Synthetic (CAS Mixture)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 5 mg/l/4h
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
<b>Skin corrosion/irritation</b>	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May be irritating to the skin.	
<b>Serious eye damage/irritation</b>	Direct contact with eyes may cause temporary irritation.	
<b>Respiratory or skin sensitisation</b>		
<b>Respiratory sensitisation</b>	Not classified.	
<b>Skin sensitisation</b>	Not classified.	
<b>Germ cell mutagenicity</b>	Not classified.	
<b>Carcinogenicity</b>	Not classified.	
<b>ACGIH Carcinogens</b>		
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (CAS -)	A4 Not classifiable as a human carcinogen.	
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (CAS -)	3 Not classifiable as to its carcinogenicity to humans.	
<b>Reproductive toxicity</b>	Not classified.	
<b>Specific target organ toxicity - single exposure</b>	Not classified.	
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.	
<b>Aspiration hazard</b>	Not classified, however droplets of the product may be aspirated into the lungs through ingestion or vomiting and may cause a serious chemical pneumonia.	
<b>Other information</b>	Prolonged and repeated contact with used oil may cause serious skin diseases, such as dermatitis and skin cancer.	

## 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.

Product	Species	Test results
Husqvarna XP® Synthetic		
<b>Aquatic</b>		
<i>Acute</i>		
Crustacea	EC50 Daphnia	> 10000 mg/l, 48 hours
Fish	EC50 Oncorhynchus mykiss	> 100 mg/l, 96 hours
<b>Persistence and degradability</b>	No data available.	
<b>Bioaccumulative potential</b>	The product contains potentially bioaccumulating substances.	
<b>Mobility in soil</b>	No data available.	

<b>Mobility in general</b>	The product is insoluble in water. It will spread on the water surface while some of the components will eventually sediment in water systems. The volatile components of the product will spread in the atmosphere.
<b>Other adverse effects</b>	Oil spills are generally hazardous to the environment.

### 13. Disposal considerations

<b>Disposal methods</b>	Dispose in accordance with all applicable regulations. This material and/or its container must be disposed of as hazardous waste.
<b>Residual waste</b>	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).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. Transport information

#### ADG

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 Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

### 15. Regulatory information

#### Safety, health and environmental regulations

**National regulations** This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals (23/12/2011). No poison schedule number allocated.

**Australia Medicines & Poisons Appendix A**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix B**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix C**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix D**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix E**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix F**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix G**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix H**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix I**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix J**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix K**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 2**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 3**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 4**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 5**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 6**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 7**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 8**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 9**

Poisons schedule number not allocated.

**High Volume Industrial Chemicals (HVIC)**

Not listed.

**Importation of Ozone Depleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)**

Not listed.

**National Pollutant Inventory (NPI) substance reporting list**

Not listed.

**Prohibited Carcinogenic Substances**

Not regulated.

**Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)**

Not listed.

**Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)**

Not listed.

**Restricted Carcinogenic Substances**

Not regulated.

**International regulations****Stockholm Convention**

Not applicable.

**Rotterdam Convention**

Not applicable.

**Kyoto protocol**

Not applicable.

**Montreal Protocol**

Not applicable.

**Basel Convention**

Not applicable.

**16. Other information**

<b>Issue date</b>	01-March-2016
<b>Revision date</b>	-
<b>Key abbreviations or acronyms used</b>	LD50: Lethal Dose, 50%. LC50: Lethal Concentration, 50%. EC50: Effective Concentration, 50%. TWA: Time weighted average.
<b>References</b>	HSDB® - Hazardous Substances Data Bank Registry of Toxic Effects of Chemical Substances (RTECS) ESIS (European chemical Substances Information System)
<b>Disclaimer</b>	The information in the sheet was written based on the best knowledge and experience currently available.