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Revision: 4.0

# SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION: PRODUCT IDENTIFIER/CHEMICAL IDENTITY

1.1 PRODUCT IDENTIFIER: Stihl Superclean1.2 PRODUCT CODE: 7004 871 0438.

1.3 RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST:

**RELEVANT IDENTIFIED USES:** Resin and oil dissolver.

**RESTRICTIONS ON USE:** None known.

1.4 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

SUPPLIER NAME: Stihl Pty Ltd (ABN: 76 004 881 145)

ADDRESS: 5 Kingston Park Court, Knoxfield, Victoria, Australia, 3180

9 Bishop Browne Place, East Tamaki, Auckland, New Zealand, 1730.

E-MAIL: <u>csc@stihl.com.au; info@stihl.co.nz</u> TELEPHONE NUMBER: +61 3 9215 6666 (NZ: +64 9262 4000)

**1.5 EMERGENCY TEL. NUMBER:** (Poisons Information Centre (Aust 131 126; NZ 0800 764 766))

HSNO APPROVAL NUMBER: HSR002515.

**HSNO GROUP TITLE:** Aerosols (Flammable) Group Standard, 2020.

# **SECTION 2 – HAZARD(S) IDENTIFICATION**

#### 2.1 CLASSIFICATION OF THE HAZARDOUS CHEMICAL:

**GHS CLASSIFICATION HAZARD** 

**CLASS & CATEGORY:** The product is an aerosol hydrocarbon mixture and has been assessed under

the Model Work Health and Safety Regulations with the following

Classification:

Aerosols - Category 1

#### 2.2 LABEL ELEMENTS INCLUDING PRECAUTIONARY STATEMENTS:

SIGNAL WORD: Danger.

PICTOGRAMS:

**HAZARD STATEMENTS:** H222 - Extremely flammable aerosol.

H229 - Pressurised container: may burst if heated.

AUH066 - Repeated exposure may cause skin dryness or cracking.

PRECAUTIONARY STATEMENTS:

**PREVENTION:** P102 - Keep out of reach of children.

P103 - Read carefully and follow all instructions.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use.

**RESPONSE:** Not applicable.

STORAGE: P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding

50°C/122°F.

**DISPOSAL:** Not applicable.

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# SECTION 2 - HAZARD(S) IDENTIFICATION Continued

#### 2.3 OTHER HAZARDS:

Inhalation of concentrated vapours may have a narcotic effect as well as lead to drowsiness and dizziness. The product contains liquefied petroleum gases as a propellant. These hydrocarbons can cause central nervous system depression and cardiac sensitisation at high concentrations. The product will form flammable/explosive mixtures in air. Do not spray on naked flames or any incandescent materials. The product is in a pressurised container and should be protected from sunlight and should not be exposed to temperatures exceeding 50°C. The container should not be pierced or burnt, even after use. People with pre-existing skin conditions, such as eczema or dermatitis, should take precautions so as not to exacerbate the condition. As for all chemical products, persons should not expose open wounds, cuts, abrasions or irritated skin to this material.

## **SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS**

INGREDIENTS	CAS NUMBER	Concentration % W/W	GHS Classification*
Lubricating oils, petroleum, C15–30, hydrotreated			
neutral oil based**	72623-86-0	25% - < 50%	Asp Haz 1 - H304
Distillates, petroleum, hydrotreated light	*** 64742-47-8	25% - < 50%	Asp Haz 1 - H304
			AUH066
Butane	106-97-8	5% - < 10%	Flam Gas 1 - H220
Propane	74-98-6	5% - < 10%	Flam Gas 1 - H220
Propane, 2-methyl- (Isobutane)****	75-28-5	1 - < 3%	Flam Gas 1 - H220

Not Applic = Not Applicable \* Please see Section 15 of this SDS for the full text description of the Label Elements.

### SECTION 4 - FIRST AID MEASURES

# 4.1 DESCRIPTION OF NECESSARY FIRST AID MEASURES:

**INGESTION:** 

As the product is in an aerosol container ingestion should not be a normal route of entry. If ingested, rinse mouth out with water. If swallowed, do NOT induce vomiting. For advice, contact the Poisons Information Centre (phone Australia 131 126; New Zealand 0800 764 766) or a doctor at once. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Within 6 hours of ingestion, if delayed symptoms, such as a fever greater than 38.3°C, shortness of breath, chest congestion or continued coughing/wheezing occurs transport immediately to a medical facility.

EYE:

If in eyes, hold eyelids apart and flush the eye immediately with large amounts of running water. Continue flushing for at least 15 minutes or until advised to stop by a doctor. Check for contact lenses. If there are contact lenses, these should be removed after several minutes of rinsing by the exposed person or medical personnel if it can be done easily. As the product is in a pressure pack, as a precaution it is recommended that after rinsing, consult a doctor.

**SKIN CONTACT:** 

If skin or hair contact has occurred remove any contaminated clothing and footwear, wash skin or hair thoroughly with soap and water. If irritation develops or persists, seek medical assistance.

<sup>\*\*</sup> The Lubricating oil component contains <3% DMSO extractables as measured by IP346.

<sup>\*\*\*</sup>The actual component as nominated by the manufacturer is Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics fraction which under the Hydrocarbon Solvents Producers Association (Europe) is covered by CAS Number 64742-47-8. The component contains <0.1% Benzene.

<sup>\*\*\*\*</sup> The Isobutane component contains < 0.1% of 1,3-Butadiene.

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### SECTION 4 – FIRST AID MEASURES Continued

#### INHALATION:

If affected, remove the patient from further exposure into fresh air, if safe to do so. If providing assistance, avoid exposure to yourself - only enter contaminated environments with adequate respiratory equipment, once environment has been assessed for flammable vapours. Once removed, lay patient down in a well-ventilated area and reassure them whilst waiting for medical assistance. If the person feels unwell and symptoms, such as dizziness or uncoordination occur, contact the Poisons Information Centre (phone Australia 131 126; New Zealand 0800 764 766) whilst waiting for medical assistance. If not breathing, provide artificial respiration and seek immediate medical assistance. If unconscious, place in a recovery position and seek immediate medical assistance. If irritation develops or persists, consult a doctor.

# PROTECTION FOR FIRST AIDERS:

No personnel shall place themselves in a situation that is potentially hazardous to themselves. Due to the volatility of the product, never enter the area until you have assessed the environment for oxygen depletion and flammable vapours. Never enter an environment with a flammable atmosphere. Do not enter contaminated area without a respirator or Self Contained Breathing Apparatus once you have assessed the atmosphere. As the product is hydrocarbon based, if the person has ingested the product, do not use direct mouth-to-mouth resuscitation techniques. Always ensure that you are wearing gloves when dealing with first aid procedures involving chemicals and/or blood.

#### **FIRST AID FACILITIES:**

Eye wash fountain and safety showers, or at least a source of flowing water, are recommended in the area where the product is used.

# 4.2 MOST IMPORTANT SYMPTOMS & EFFECTS, BOTH ACUTE & DELAYED, CAUSED BY EXPOSURE: ACUTE: Indestion or inhalation of vapours may lead to irritation of the mouth a

Ingestion or inhalation of vapours may lead to irritation of the mouth and respiratory tract. Symptoms may include a burning sensation in the nose and throat, coughing or difficulty breathing. Ingestion may lead to nausea and diarrhoea. Inhalation of high vapour concentrations may cause central nervous system depression resulting in dizziness, drowsiness, headache, nausea and possible loss of coordination. Continued inhalation may result in unconsciousness and death. Eye contact may lead to localised burning, redness and tearing. Skin contact may lead to redness or itching. Continued skin exposure may lead to dryness and cracking. The residual component after evaporation of the propellant may present an aspiration hazard. If material is aspirated into the lungs it may exhibit as coughing, wheezing, congestion or fever.

#### **CHRONIC:**

Skin contact may aggravate/exacerbate existing skin conditions, such as dermatitis.

# 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NECESSARY: ADVICE TO DOCTOR: Treat symptomatically. A build-up of vapours in a confined space or intention

Treat symptomatically. A build-up of vapours in a confined space or intentional concentration of the vapours may cause symptoms, such as headache, drowsiness, dizziness, muscular weakness and in the worst case Central Nervous System depression including loss of consciousness. Intentional misuse by concentrating and inhaling the contents may be harmful or fatal. As the residual component after evaporation of the propellant may present an aspiration hazard, if ingested, the patient should be monitored for adverse effects to ensure that the product has not aspirated into the lungs. Small amounts of this product aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary oedema.

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### **SECTION 5 – FIRE FIGHTING MEASURES**

**5.1 EXTINGUISHING MEDIA:** 

SUITABLE MEDIA: Use extinguishing media appropriate for surrounding fire. Use carbon dioxide,

foam on residual material, dry chemical or water spray. Spray down fumes

resulting from fire.

UNSUITABLE MEDIA: Avoid using full water jet directed at residual material that may be burning.

Water may cause splattering on hot residues. Product will float on water.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

COMBUSTION HAZARDS: Combustion will produce oxides of carbon and sulphur, as well as smoke and

irritating vapours.

**5.3 ADVICE FOR FIREFIGHTERS:** 

FIRE: This product is extremely flammable with a flash point of < -18°C, due to the

presence of propane and butane in an aerosol container. The vapour is heavier than air and will spread along the ground and may accumulate in low points or depressions. Therefore, ignition may occur well away from the point of release of the material. Keep storage tanks, pipelines, fire exposed surfaces, etc. cool

with water spray.

**HAZCHEM CODE:** Aerosol – No Hazchem Code assigned.

**EXPLOSION:** Extremely flammable gas. Vapours will form explosive mixtures with air.

Vapours are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources distant from the material handling point. The product is in an aerosol container that is liable to overpressure and distend or explode if subjected to sufficient heat. Ruptured aerosol containers are likely to be propelled during a fire.

Extinguish all sources of flame or spark.

**PROTECTIVE** 

**EQUIPMENT:** In the event of a fire, wear full protective clothing and self-contained breathing

equipment with full-face piece operated in the pressure demand or other

positive pressure mode.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

PERSONAL PROTECTION:

For small spills, wear Nitrile gloves, glasses/goggles, boots and full-length clothing. During routine operation for a small spill in the open a respirator is not required. However, if mists or vapours are generated, an approved organic vapour/particulate respirator is required. For large spills, or in confined spaces, a full chemically resistant body-suit is recommended and the atmosphere must be evaluated for oxygen deficiency and whether the atmosphere is flammable. If in doubt wear self-contained breathing apparatus. CAUTION: Never enter an environment with a flammable atmosphere. NOTE: For anything other than a spill of less than a couple of aerosol containers only trained personnel should deal with aerosol incidents.

**CONTROL MEASURES:** 

Evacuate all personnel from the spill area. Ventilate spill area and extinguish and/or remove all sources of ignition. CAUTION: Vapours may form an explosive mixture with air. Isolate area until vapours have dissipated. Never enter a spill area unless you know the vapours have dissipated to make the area safe. The vapour is heavier than air and will spread along the ground and may accumulate in low points or depressions. Therefore, ignition may occur well away from the point of release of the material. Stop the leak if safe to do so. CAUTION: The spilled product will be slippery. Avoid contact with the spilled material.

**EMERGENCY PROCEDURES:** In the event of a spill or accidental release, notify the relevant authorities in accordance with all applicable regulations.

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### SECTION 6 – ACCIDENTAL RELEASE MEASURES Continued

#### 6.2 ENVIRONMENTAL PRECAUTIONS:

SPILL ADVICE:

Do not allow product to enter drains, surface water, sewers or watercourses - inform local authorities if this occurs. Ensure all equipment is grounded and use non-sparking tools during clean up operations. As mentioned above, spills involving a number of aerosol containers should only be dealt with by suitably trained personnel.

#### 6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

CONTAINMENT:

Do not enter the spill area until the vapours have dissipated. Contain the spill and absorb with a proprietary absorbent material, sand or earth. CAUTION: The spilled product will be slippery. Be careful of static discharges and/or sparking during clean up. For large spills prepare a bund/barrier/dyke ahead of the spill to confine the spill and allow later recovery. If there is the possibility of spills to enter drains, surface water, sewers or watercourses ensure bunding, or that drains are covered, to minimise the potential for this to occur.

#### **CLEANING PROCEDURES:**

After the vapour has dissipated, having contained the residual spill material, as mentioned above, collect all material quickly and place used absorbent in suitable containers. Be careful of static discharges and/or sparking during clean up. Use only non-sparking tools during cleaning operations. CAUTION: The spilled product will be slippery. Follow local regulations for the disposal of waste. For large spills that have been bunded, the residual material can be pumped, using flammable liquid equipment, into vessels and returned for reprocessing or destruction. Personnel must wear the appropriate clothing as required in Section 6.1 during cleaning procedures; after the environment has been evaluated. Wash contaminated area and objects with detergent and water after spill has been cleared. Rinse the cleaned area with water. Do not allow wash water or rinsings to enter drains, surface water, sewers or water courses.

# SECTION 7 - HANDLING AND STORAGE, INCLUDING HOW THE CHEMICAL MAY BE SAFELY USED

### 7.1 PRECAUTIONS FOR SAFE HANDLING:

**SAFE HANDLING:** 

Caution should be exercised when handling the product, as it is a pressurised aerosol container. Do not puncture or incinerate can or expose to excessive heat whilst handling to avoid overpressure concerns. Do not leave containers in direct sunlight. Avoid contact with the product by using appropriate protective equipment such as gloves, glasses or goggles and full-length clothing. Extinguish any potential sources of ignition before using. Do not spray onto naked flames or any incandescent material. Do not perform operations on or near containers, such as welding, grinding or drilling that may become a potential source of ignition. Avoid inhalation of vapours and spray mist that will be generated during usage. Use only in well ventilated areas. This product is extremely flammable, DO NOT smoke whilst using the product. CAUTION: Do not tamper with the valve system of the container. Prevent small spills and leakage to avoid slip hazards. Take precautions to avoid the build up of residual vapours in low spots, such as hollows, drains or sumps. Properly dispose of any contaminated rags or cleaning materials in order to prevent fire hazards. Containers, even those that are empty, will contain residual flammable vapours. Eating, drinking, and smoking should be prohibited in the area where this material is handled, stored and processed. Workers should follow good personal hygiene practices, such as washing hands before eating, drinking and Remove contaminated clothing and protective equipment before entering eating areas. Prevent product from entering waterways, drains or sewers. There is the potential for electrostatic accumulation in the product. Containers should always be earthed before dispensing commences.

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# SECTION 7 - HANDLING AND STORAGE, INCLUDING HOW THE CHEMICAL MAY BE SAFELY USED Continued

#### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATABILITIES:

SAFE STORAGE:

Store in a dry, well ventilated area away from direct sunlight, heat, potential ignition sources, oxidising agents including strong acids, foodstuffs and clothing. Protect the packaging from damage. When the packaged material is intact the product is deemed to be of limited hazard. The product should be stored at a temperature of less than 50°C to avoid overpressure concerns. Inspect regularly for damage, corrosion and leaks. The recommended storage temperature is 20°C. Ensure appropriate fire extinguishing equipment is near the storage area in case of an incident.

**INCOMPATIBILITIES:** Oxidising substances including strong acids and alkalis.

### SECTION 8 – EXPOSURE CONTROLS & PERSONAL PROTECTION

#### **8.1 EXPOSURE CONTROL MEASURES:**

EXPOSURE LIMIT VALUES: Exposure standards for the product have not been established. The following

values are applicable for the individual components:

**Butane:** 

TWA: 800 ppm 1900 mg/m<sup>3</sup>

Propane (Asphyxiant):

TWA: 1000 ppm 1800 mg/m<sup>3</sup> (WEL)

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

TWA: 165 ppm, 1200 mg/m<sup>3</sup>

8.2 BIOLOGICAL

MONITORING: No data available. 8.3 CONTROL BANDING: No data available.

**8.4 ENGINEERING CONTROLS:** 

ENGINEERING CONTROLS: Local ventilation is recommended to minimise the potential for exposure and for

the build up of flammable vapours. If mists or vapours are generated or in enclosed spaces exhaust ventilation must be provided to maintain airborne concentration levels below the nominated exposure standards and at an acceptable level that does not cause irritation. It is recommended when large quantities are stored that local exhaust systems are used to minimise employee exposure. PLEASE NOTE: Due to the flammable nature of the product, if there is a necessity to use ventilation equipment it should not be a potential source of ignition for any vapours generated.

#### **8.5 INDIVIDUAL PROTECTION MEASURES:**

EYE & FACE PROTECTION: As the contents are under pressure, it is recommended that you wear safety

glasses/goggles when handling the product to avoid eye contact. Ensure container is facing away from the person before using. Use eye protection in

accordance with AS 1336 and AS 1337.

SKIN (HAND) PROTECTION: If there is the chance of contact with the material wear gloves to provide hand

protection. Nitrile gloves are recommended.

SKIN (CLOTHING)

**PROTECTION:** During normal operating procedures, long sleeved clothing is recommended to

avoid skin contact. Wash soiled clothing with detergent prior to re-use.

RESPIRATORY PROTECTION: During routine operation with local ventilation a respirator is not required, as

exposure standards should not be exceeded. PLEASE NOTE: The Liquefied petroleum gases propellant contains propane which is rated as an asphyxiant in HCIS. If ventilation is inadequate a determination should be made as to the amount of oxygen in the environment before a respirator is chosen. If mists or vapours are generated or when in enclosed spaces and there is a determination that there is suitable oxygen in the environment, an approved half face organic vapour (Type AX low boiling organic is recommended)/particulate respirator is required. Use respirators in accordance with AS 1715 & AS 1716.

THERMAL PROTECTION: Not applicable.

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### **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

9.1 PHYSICAL AND CHEMICAL PROPERTIES:
APPEARANCE:
ODOUR:
Vanilla-like odour.
ODOUR THRESHOLD:
No data available.
PH:
Not applicable.

MELTING/FREEZING POINT: No data available.

INITIAL BOILING POINT: For residual component without propellant, typically 180°C.

BOILING RANGE (°C): For residual component without propellant, typically 180°C - 370 °C.

FLASHPOINT (°C): < -18°C. Flash point of residual component without propellant is nominated as

88°C (DIN 51758).

**EVAPORATION RATE:** No data available.

FLAMMABILITY LIMITS (%): Propellant data: Lower Explosive Limit: 1.5%; Upper Explosive Limit: 10.9%.

For the residual component without propellant, the expected Lower Explosive

Limit is 0.5% and Upper Explosive Limit is 5.0%.

**VAPOUR PRESSURE (kPa):** No data available. **VAPOUR DENSITY:** No data available.

**DENSITY (g/mL@ 20.0°C):** For residual component without propellant, typically 0.82 to 0.83.

SOLUBILITY IN WATER(g/L): Not miscible in water. PARTITION COEFFICIENT: No data available. AUTO-IGNITION TEMP (°C): No data available. VISCOSITY (cSt @ 100°C): No data available.

VISCOSITY (cSt @ 40°C): For residual component without propellant, typically < 7.

# **SECTION 10 – STABILITY AND REACTIVITY**

**10.1 REACTIVITY:** The product does not pose any further reactivity hazards other than those listed

in the following sub-sections.

10.2 CHEMICAL STABILITY: Stable under recommended storage and handling conditions (see section 7).

**10.3 POSSIBILITY OF** 

HAZARDOUS REACTIONS: Keep away from strong oxidising agents, such as strong acids, chlorates,

nitrates and peroxides. Hazardous polymerisation does not occur. The product

will form flammable/explosive mixtures in air.

10.4 CONDITIONS TO AVOID: The product should be maintained at a temperature below 50°C. Above this

temperature, the container may overpressure and deform (distend) or if sufficient heat is applied explode. Do not pierce or burn the container even after use. Avoid moist atmospheres that may lead to corrosion of the container. The product has a flash point of < -18°C. Avoid ignition sources, including heat and sparks, when storing and using the product. Observe the usual

precautionary measures for handling chemicals.

10.5 INCOMPATIBLE

MATERIALS: Strong oxidising agents including concentrated acids. Follow normal Dangerous

Goods Storage requirements for aerosol containers.

#### 10.6 HAZARDOUS DECOMPOSITION

PRODUCTS: Hazardous decomposition products are not expected to form during normal

storage requirements. See Section 5.2 for Hazardous Combustion products.

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## **SECTION 11 – TOXICOLOGICAL INFORMATION**

#### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

The product is a mixture and test data is not available for the product as a whole.

Lubricating oils, petroleum, C15-30, hydrotreated neutral oil based:

Oral -  $LD_{50}$  (Rat): > 5,000mg/kg Dermal -  $LD_{50}$  (Rabbit): > 2,000mg/kg

Inhalation - LC<sub>50</sub> (Rat, vapour, 4 hours): > 5,000mg/L

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclic <2% Aromatics:

Oral -  $LD_{50}$  (Rat): > 5,000mg/kg Dermal -  $LD_{50}$  (Rabbit): > 5,000mg/kg

Inhalation - LC<sub>50</sub> (Rat, vapour, 8 hours): > 5,000mg/m<sup>3</sup>

Butane:

Inhalation - LC<sub>50</sub> (Rat, 4 hours): 658mg/L

11.2 SWALLOWED:

This product is expected to have a low order of toxicity associated with it when ingested. It may cause slight irritation to the mouth, throat and digestive tract. Ingestion of significant quantities, though difficult to achieve with aerosol containers, may result in central nervous system depression from the distillate component. Ingestion may present with symptoms that may include headache, dizziness, drowsiness, muscular weakness, fainting and in the worst-case loss of consciousness. As the product is hydrocarbon based with an expected low viscosity of the residual component without the propellant, caution should be taken in respect to aspiration into the lungs. Small amounts of this product aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary oedema. During normal usage ingestion should not be a means of exposure.

11.3 SKIN CORROSION/ IRRITATION:

The product may be mildly irritating to the skin. Repeated exposure may cause skin dryness or cracking. Correct handling procedures incorporating appropriate protective clothing and gloves should minimise the risk of skin irritation. People with pre-existing skin conditions, such as dermatitis, should take extreme care so as not to exacerbate the condition. Direct exposure of rapidly expanding gas or vapourising liquid may cause "Cold" burns similar to frostbite.

11.4 SERIOUS EYE DAMAGE/ IRRITATION:

The product is not expected to cause eye irritation/corrosivity based on the available data and the known hazards of the components. Direct spraying of the product into the eye may cause irritation, exhibited as localised burning, redness and production of tears. In a worst case scenario the cornea may be damaged by direct injection under pressure of the product into the eye. Always ensure the outlet is pointing away from you when operating the container. Correct handling procedures incorporating appropriate eye protection should minimise the risk of eye irritation.

11.5 RESPIRATORY OR SKIN SENSITISATION:

This product is not expected to be a skin sensitiser, based on the available data and the known hazards of the components. This product is not expected to be a respiratory tract sensitiser, based on the available data and the known hazards of the components.

11.6 GERM CELL MUTAGENICITY:

This product is not expected to be mutagenic, based on the available data and the known hazards of the components.

11.7 CARCINOGENICITY:

The product is not expected to be a carcinogen, based on the available data and the known hazards of the components. Long term animal experiments have shown that any health risks in these types of products are associated with the 1,3-Butadiene and Benzene content of the Isobutane component and the Benzene content of the Naphtha component. These are present respectively at the level of < 0.1%. Carcinogenicity can also be associated with the Lubricating oil component. However, this component contains <3% DMSO extractables as measured by IP346.

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### SECTION 11 – TOXICOLOGICAL INFORMATION Continued

11.8 REPRODUCTIVE

**TOXICITY:** 

This product is not expected to be a reproductive hazard, based on the

available data and the known hazards of the components.

11.9 SPECIFIC TARGET ORGAN TOXICITY (STOT) -

SINGLE EXPOSURE:

There is no data available for the product as a whole. This product is not expected to cause organ damage from a single exposure, based on the available data and the known hazards of the components. This product is not expected to pose an irritation hazard at ambient temperature or under normal handling conditions. Not classified as a respiratory irritant, however inhalation of vapours may cause irritation to the nose, throat and respiratory system. A build-up of vapours in a confined space or intentional concentration of the vapours may cause symptoms, such as headache, drowsiness, dizziness and muscular weakness. Inhalation of high concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea. Continued inhalation of high concentration levels mav unconsciousness and/or death. Intentional misuse by concentrating and inhaling the contents may be harmful or fatal. During normal use of the product with adequate ventilation, inhalation should not be a means of entry. Caution the product contains propane which is classified as an asphyxiant.

11.10 SPECIFIC TARGET ORGAN TOXICITY (STOT) -

**REPEATED EXPOSURE:** 

There is no data available for the product as a whole. This product is not expected to cause organ damage from prolonged or repeated exposure, based on the available data and the known hazards of the components.

11.11 ASPIRATION HAZARD: As the product is hydrocarbon based and its expected residual viscosity after dissipation of the propellant is low, caution should be taken in respect to aspiration into the lungs. However, ingestion of significant quantities would be difficult to achieve with aerosol containers. Small amounts of this product aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary oedema. This can be fatal. If the product has been ingested or vomiting has occurred after ingestion, the patient should be monitored for adverse effects. As the product is in an aerosol container, continued inhalation of spray mists or aerosols may deposit material in the lung which could present as similar to the person aspirating the product into the lungs.

11.12 OTHER INFORMATION: The product contains propane, butane and isobutane as propellants. These alkanes can cause central nervous system depression and cardiac sensitisation at high concentrations. Light hydrocarbon gases, such as propane are rated as asphyxiants.

#### SECTION 12 – ECOLOGICAL INFORMATION

12.1 ECOTOXICITY:

The manufacturer nominates the following Ecotoxicity data:

Lubricating oils, petroleum, C15-30, hydrotreated neutral oil based

EC<sub>50</sub> (Crustacea, 48hr): > 100mg/L. ErC<sub>50</sub> (Algae, 72hr): > 100mg/L. LC<sub>50</sub> (Fish, 96hr): > 100mg/L.

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics fraction

ELo (Daphnia magna, 48hr): 1,000mg/L.

ELo (Pseudokirchneriella subcapitata, 72hr): 1,000mg/L.

LLo (Oncorhynchus mykiss, 96hr): 1,000mg/L.

Butane

LC<sub>50</sub> (Fish, 96hr): 27.98 mg/L. EC<sub>50</sub> (Algae, 4d): 7.71 mg/L.

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### **SECTION 12 – ECOLOGICAL INFORMATION Continued**

12.1 ECOTOXICITY (Continued):

**Propane** 

LC<sub>50</sub> (Fish, 96hr): 27.98 mg/L. EC<sub>50</sub> (Algae, 96hr): 7.71 mg/L.

Isobutane

LC<sub>50</sub> (Fish, 96hr): 27.98 mg/L. EC<sub>50</sub> (Algae, 4d): 7.71 mg/L.

There is no data available for the product as a whole. Due to their low solubility and high volatility; liquefied petroleum gases, such as propane and butane, are not expected to present an aquatic contamination risk. At ambient temperatures, liquefied petroleum gases are in the vapour phase in the atmosphere where they have an average half-life of 6 days. They do not suffer photolysis or hydrolysis. Based upon calculated values, the overall product would not be expected to be rated.

12.2 PERSISTENCE & DEGRADABILITY:

There is no data available for the product as a whole. Tests indicate that liquefied petroleum gases are inherently biodegradable. The manufacturer

nominates the following Persistence and Degradability data:

Lubricating oils, petroleum, C15-30, hydrotreated neutral oil based -

Biodegradation 53% (28day).

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

fraction - Biodegradation 69% (28day).

12.3 BIOACCUMULATIVE POTENTIAL:

There is no data available for the product as a whole.

**12.4 MOBILITY IN SOIL:** 

There is no data available for the product as a whole. The liquefied petroleum gases are highly volatile and will evaporate into the air rapidly. The solvent component will slowly evaporate to the air if released to the environment. If the residual mineral oil component enters soil, based upon similar products it is expected that it will adsorb onto soil particles and will not be mobile.

12.5 OTHER ADVERSE

**EFFECTS**:

Do not allow the residual product to reach ground water, water courses or

sewage systems.

# **SECTION 13 – DISPOSAL CONSIDERATIONS**

13.1 DISPOSAL METHODS: PRODUCT:

The product should not be released to the environment, so any unused material should be recycled wherever possible or be disposed of as hazardous waste at an appropriate collection depot. The product is also suitable for incineration at very high temperatures to prevent formation of undesirable combustion products. Residual, spilled product that cannot be recovered should be absorbed and then shovelled into a suitable waste container, such as a plastic drum and then be treated as a solid waste. Follow Government regulations for disposal of such waste. All unused, waste or spilled product must be taken for recycling or disposal by suitably licensed contractors in accordance with Government regulations.

**CONTAINERS:** 

Empty containers may contain residual product. DO NOT puncture or incinerate aerosol containers. CAUTION: Residues are highly flammable and will ignite with a source of ignition. Containers should be completely drained in a well-ventilated area where vapours cannot accumulate and then stored until disposed of. Empty aerosol containers should be taken for recycling or disposal through suitably licensed contractors in accordance with Government regulations. The containers are of metal construction and should not be repressurised, cut by a grinder, welded, brazed, soldered, drilled or exposed to heat, flames or other sources of ignition. Aerosol containers when exposed to such conditions/treatment may explode causing serious injury or death.

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### SECTION 14 – TRANSPORT INFORMATION

This product is regulated for land, sea or air transportation.

14.1 LAND (ADG Code):

UN NUMBER: UN1950

**UN PROPER SHIPPING** 

NAME: AEROSOLS.

TRANSPORT HAZARD

**CLASS(ES):** 2.1

PACKAGING GROUP: Not applicable.

**ENVIRONMENTAL** 

HAZARDS: No

SPECIAL PRECAUTIONS

**FOR USER:** Special provisions: 63, 190, 277, 327, 344 **HAZCHEM CODE:** Aerosol - No Hazchem Code assigned.

14.2 SEA (IMDG):

UN NUMBER: 1950

**UN PROPER SHIPPING** 

NAME: AEROSOLS

TRANSPORT HAZARD

**CLASS(ES):** 2.1

PACKAGING GROUP: Not applicable.

**ENVIRONMENTAL** 

HAZARDS: No

SPECIAL PRECAUTIONS

FOR USER: MMS Number: F-D, S-U. Special Provisions: 63, 190, 277, 327, 344, 959.

14.3 AIR (IATA):

UN NUMBER: 1950

**UN PROPER SHIPPING** 

**NAME:** Aerosols, Flammable.

TRANSPORT HAZARD

**CLASS(ES):** 2.1

PACKAGING GROUP: Not applicable

**ENVIRONMENTAL** 

HAZARDS: No

**SPECIAL PRECAUTIONS** 

**FOR USER:** A145, A167, A802.

#### SECTION 15 – REGULATORY INFORMATION

#### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS:

**APPLICABLE REGULATIONS:** 

**SUSMP:** Not applicable.

All ingredients are on the AllC List.

MONTREAL PROTOCOL:
STOCKHOLM CONVENTION:
ROTTERDAM CONVENTION:
BASEL CONVENTION:

All ingredients are on the AllC List.
Not applicable to this product.
Not applicable to this product.
Not applicable to this product.

INTERNATIONAL CONVENTION FOR THE PREVENTION OF POLLUTION FROM

SHIPS (MARPOL): Not applicable for aerosols.

OTHER REGULATORY INFORMATION:

**GHS CLASSIFICATION HAZARD CLASS & CATEGORY** 

AND HAZARD STATEMENT: Flammable Gases Category 1A; H220 - Extremely flammable gas.

Aerosols Category 1; H222 - Extremely flammable aerosol.

Aerosols Category 1; H229 - Pressurised container: may burst if heated.

Aspiration Hazard Category 1; H304 - May be fatal if swallowed and enters

airways.

AUH066 - Repeated exposure may cause skin dryness or cracking.

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# SAFETY DATA SHEET

### **SECTION 15 – REGULATORY INFORMATION Continued**

HSNO APPROVAL NUMBER: HSR002515.

**HSNO GROUP TITLE:** Aerosols (Flammable) Group Standard, 2020.

### **SECTION 16 – ANY OTHER RELEVANT INFORMATION**

SDS INFORMATION:

**Date of SDS Preparation:** 15<sup>th</sup> February 2023 **Revision:** 4.0

**REVISION CHANGES:** Review and update of SDS to GHS 7.

**ACRONYMS:** 

SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

CAS Number Chemical Abstracts Service Registry Number

EINECS European Inventory of Existing Commercial Chemical Substances

UN Number United Nations Number

OSHA Occupational Safety and Health Administration

ACGIH American Conference of Governmental Industrial Hygienists HSE-WEL Health and Safety Executive - Workplace Exposure Limit

EH40 EH40/2005 Workplace Exposure Limits
IMDG International Maritime Dangerous Goods
IATA International Air Transport Association

IUCLID International Uniform Chemical Information Database RTECS Registry of Toxic Effects of Chemical Substances

%W/W Percent weight for weight

OECD Organisation for Economic Co-Operation and Development

ADG Code Australian Code for the Transport of Dangerous Goods by Road and Rail

HAZCHEM Code Emergency action code of numbers and letters which gives information to emergency services

NOHSC

AICIS

National Occupational Health and Safety Commission
Australian Industrial Chemicals Introduction Scheme
IMAP

Inventory Multi-Tiered Assessment and Prioritisation

AIIC Australian Inventory of Industrial Chemicals

TWA Time-Weighted Average STEL Short Term Exposure Limit

HSNO Hazardous Substances and New Organisms Act 1996

GHS Globally Harmonised System of Classification and Labelling of Chemicals

WHS Work Health and Safety PPE Personal Protective Equipment.

ECHA European Chemicals Agency

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

LD<sub>50</sub> Median Lethal Dose

LC<sub>50</sub> Median Lethal Concentration

EC<sub>50</sub> Effective Concentration of a substance that causes 50% of the maximum response after

exposure for a nominated time

NOAEL
NO Observed Adverse Effect Level
NOEC
NO Observed Effect Concentration
HCIS
Hazardous Chemical Information System
PBT
Persistent, Bioaccumulative and Toxic
vPvP
Very Persistent and Very Bioaccumulative

### LITERATURE REFERENCES AND SOURCES OF DATA:

**OECD** Guidelines for Testing of Chemicals

Annex I: OECD Test Guidelines for Studies Included in SIDS

Manual for the Assessment of Chemicals Chapter 2 Data Gathering

International Toxicity Testing Guidelines

Hazardous Substance Information System - Guidance Material for Hazard Classifications

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Model Work Health and Safety Regulations.

Model Work Health and Safety Regulations - Transitional Principles

Workplace Exposure Standards for Airborne Contaminants

Australian Dangerous Goods Code 7th Edition

Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]

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### SECTION 16 – ANY OTHER RELEVANT INFORMATION Continued

#### LITERATURE REFERENCES AND SOURCES OF DATA (Continued):

Guidance on the Classification of Hazardous Chemicals under the WHS Regulations

Assigning a Hazardous Substance to a Group Standard

User Guide to the HSNO Thresholds and Classifications

Summary User Guide to the HSNO Thresholds and Classifications of Hazardous Substances

Correlation between GHS and New Zealand HSNO Hazard Classes and Categories

**HSNO** Control Regulations

Record of Group Standard Assignment

Labelling of Hazardous Substances Hazard and Precautionary Information

Thresholds and Classifications Under the Hazardous Substances and New Organisms Act 1996

Workplace Exposure Standards and Biological Exposure Indices

IMAP Human Health Tier II Assessment for Kerosines CAS Number: 64742-47-8

IMAP Human Health Tier II Assessment for Selected Refined Base Oils CAS Number: 72623-86-0

All information contained in this Safety Data Sheet and the health, safety and environmental information are considered to be accurate to the best of our knowledge as of the issue date specified above. The information presented here within, is based upon the product information supplied by the manufacturer. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the data and information contained in this data sheet.

Health and safety precautions and environmental advice noted in this data sheet may not be accurate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The Company accepts no responsibility for any injury, loss or damage, resulting from abnormal use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material.