# **Start Up Aerosol**

**GSB Chemical Co.** 

Chemwatch: **21-9693** Version No: **3.1.1.1** 

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 1

Issue Date: 11/03/2014 Print Date: 10/11/2015 Initial Date: Not Available S.GHS.AUS.EN

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

## **Product Identifier**

Product name	Start Up Aerosol
Synonyms	Not Available
Proper shipping name	AEROSOLS, NON-FLAMMABLE
Other means of identification	Not Available

## Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	3
	To assist in start up of printing process.

# Details of the supplier of the safety data sheet

Registered company name	GSB Chemical Co.	
Address	Camp Road Broadmeadows 3047 VIC Australia	
Telephone	+61 3 9457 1125 (8am-5pm, Monday - Friday)	
Fax	+61 3 9459 7978	
Website	Not Available	
Email	info@gsbchem.com.au	

# Emergency telephone number

Association / Organisation	Not Available	
Emergency telephone numbers	+61 3 9457 1125 (8am-5pm, Monday - Friday)	
Other emergency telephone numbers	13 11 26 (After hours)	

# **SECTION 2 HAZARDS IDENTIFICATION**

# Classification of the substance or mixture

# HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the Model WHS Regulations and the ADG Code.

Poisons Schedule	Not Applicable
GHS Classification	Not Applicable
Label elements	
GHS label elements	Not Applicable
SIGNAL WORD	NOT APPLICABLE

# Hazard statement(s)

AUH044	Risk of explosion if heated under confinement

# Precautionary statement(s) Prevention

Not Applicable

# Precautionary statement(s) Response

Not Applicable

## Precautionary statement(s) Storage

Not Applicable

# Precautionary statement(s) Disposal

Not Applicable

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

Issue Date: 11/03/2014 Print Date: 10/11/2015

#### Substances

See section below for composition of Mixtures

#### **Mixtures**

CAS No	%[weight]	Name	
8042-47-5	>60	white mineral oil (petroleum)	
68476-86-8.	10-<30	hydrocarbon propellant	

## **SECTION 4 FIRST AID MEASURES**

#### Description of first aid measures

Eye Contact	If aerosols come in contact with the eyes:  Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes with fresh running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Transport to hospital or doctor without delay.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If solids or aerosol mists are deposited upon the skin:  Flush skin and hair with running water (and soap if available).  Remove any adhering solids with industrial skin cleansing cream.  DO NOT use solvents.  Seek medical attention in the event of irritation.
Inhalation	If aerosols, furnes or combustion products are inhaled:  ► Remove to fresh air.  ► Lay patient down. Keep warm and rested.  ► Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.  ► If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.  ► Transport to hospital, or doctor.
Ingestion	Avoid giving milk or oils.  Avoid giving alcohol.  Not considered a normal route of entry.

## Indication of any immediate medical attention and special treatment needed

For acute or short term repeated exposures to petroleum distillates or related hydrocarbons:

- ▶ Primary threat to life, from pure petroleum distillate ingestion and/or inhalation, is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or
  poor arterial blood gases (pO2 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.
- ► Lavage is indicated in patients who require decontamination; ensure use of cuffed endotracheal tube in adult patients. [Ellenhorn and Barceloux: Medical Toxicology]
  Treat symptomatically.

## **SECTION 5 FIREFIGHTING MEASURES**

# Extinguishing media

SMALL FIRE:

► Water spray, dry chemical or CO2

LARGE FIRE:

Water spray or fog

# Special hazards arising from the substrate or mixture

Fire Incompatibility

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Advice for firefighters

- ► Alert Fire Brigade and tell them location and nature of hazard.
- ► May be violently or explosively reactive.
- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water course.
- ▶ If safe, switch off electrical equipment until vapour fire hazard removed.
- Use water delivered as a fine spray to control fire and cool adjacent area.
- DO NOT approach containers suspected to be hot.
- ► Cool fire exposed containers with water spray from a protected location.
- ▶ If safe to do so, remove containers from path of fire.
- ► Equipment should be thoroughly decontaminated after use.

## · ·

Fire/Explosion Hazard

Fire Fighting

- Non combustible.Not considered to be a significant fire risk.
- Heating may cause expansion or decomposition leading to violent rupture of containers.
- ▶ Aerosol cans may explode on exposure to naked flames.
- Rupturing containers may rocket and scatter burning materials.
- ▶ Hazards may not be restricted to pressure effects.
- May emit acrid, poisonous or corrosive fumes.
- Decomposes on heating and may emit toxic fumes of carbon monoxide (CO).

Decomposition may produce toxic fumes of; carbon monoxide (CO)Combustion products include; carbon dioxide (CO2) other pyrolysis products typical of burning organic materialContains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions.CARE. Water in

# Start Up Aerosol

contact with hot liquid may cause foaming and a steam explosion with wide scattering of hot oil and possible severe burns. Foaming may cause overflow of containers and may result in possible fire

Vented gas is more dense than air and may collect in pits, basements.

## **SECTION 6 ACCIDENTAL RELEASE MEASURES**

#### Personal precautions, protective equipment and emergency procedures

# ► Clean up all spills immediately.

# Minor Spills

- Avoid breathing vapours and contact with skin and eyes.
- Wear protective clothing, impervious gloves and safety glasses.
- Shut off all possible sources of ignition and increase ventilation.
- ▶ Wipe up.
- If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated.
- Undamaged cans should be gathered and stowed safely.
- ▶ Remove leaking cylinders to a safe place if possible.
- ▶ Release pressure under safe, controlled conditions by opening the valve.
- ▶ DO NOT exert excessive pressure on valve; DO NOT attempt to operate damaged valve.
- ▶ Clear area of personnel and move upwind.
- ▶ Alert Fire Brigade and tell them location and nature of hazard.
- May be violently or explosively reactive.

- ▶ Wear breathing apparatus plus protective gloves.
- ▶ Prevent, by any means available, spillage from entering drains or water courses
- No smoking, naked lights or ignition sources.
- Increase ventilation.
- Stop leak if safe to do so.
- Water spray or fog may be used to disperse / absorb vapour.
- ▶ Absorb or cover spill with sand, earth, inert materials or vermiculite.
- If safe, damaged cans should be placed in a container outdoors, away from ignition sources, until pressure has dissipated.
- Undamaged cans should be gathered and stowed safely.
- Collect residues and seal in labelled drums for disposal.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

#### **SECTION 7 HANDLING AND STORAGE**

Major Spills

## Precautions for safe handling

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- ▶ Prevent concentration in hollows and sumps.
- DO NOT enter confined spaces until atmosphere has been checked.
- ▶ Avoid smoking, naked lights or ignition sources.
- Avoid contact with incompatible materials.
- Safe handling
- When handling, DO NOT eat, drink or smoke.
- ▶ DO NOT incinerate or puncture aerosol cans.
- DO NOT spray directly on humans, exposed food or food utensils
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- ▶ Work clothes should be laundered separately.
- Use good occupational work practice.
- Observe manufacturer's storage and handling recommendations contained within this SDS.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

Other information

▶ Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can

# Conditions for safe storage, including any incompatibilities

Suitable container

- Aerosol dispenser.
- Check that containers are clearly labelled.

Storage incompatibility

CARE: Water in contact with heated material may cause foaming or a steam explosion with possible severe burns from wide scattering of hot material. Resultant overflow of containers may result in fire.

► Avoid reaction with oxidising agents

## **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

# **Control parameters**

# OCCUPATIONAL EXPOSURE LIMITS (OEL)

## INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	white mineral oil (petroleum)	Oil mist, refined mineral	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	hydrocarbon propellant	LPG (liquified petroleum gas)	1800 mg/m3 / 1000 ppm	Not Available	Not Available	Not Available

# **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
white mineral oil (petroleum)	Mineral oil, white	15 mg/m3	82 mg/m3	490 mg/m3
hydrocarbon propellant	Liquified petroleum gas; (L.P.G.)	3,000 ppm	3200 ppm	19000 ppm

Issue Date: 11/03/2014

Print Date: 10/11/2015

# Start Up Aerosol

Issue Date: 11/03/2014 Print Date: 10/11/2015

Ingredient	Original IDLH	Revised IDLH
white mineral oil (petroleum)	Not Available	Not Available
hydrocarbon propellant	19,000 [LEL] ppm	2,000 [LEL] ppm

#### **Exposure controls**

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

General exhaust is adequate under normal conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection.

Provide adequate ventilation in warehouse or closed storage areas.

Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

#### Appropriate engineering controls

Type of Contaminant:	Speed:
aerosols, (released at low velocity into zone of active generation)	0.5-1 m/s
direct spray, spray painting in shallow booths, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)

Within each range the appropriate value depends on:

Lower end of the range	Upper end of the range
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood-local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

## Personal protection







# Eye and face protection

No special equipment for minor exposure i.e. when handling small quantities.

OTHERWISE: For potentially moderate or heavy exposures:

- Safety glasses with side shields.
- ▶ NOTE: Contact lenses pose a special hazard; soft lenses may absorb irritants and ALL lenses concentrate them.

# Skin protection

# Hands/feet protection

- ▶ No special equipment needed when handling small quantities.
- OTHERWISE:

- ► For potentially moderate exposures:
- ▶ Wear general protective gloves, eg. light weight rubber gloves.
- For potentially heavy exposures:
- $\,\blacktriangleright\,$  Wear chemical protective gloves, eg. PVC. and safety footwear.

No special equipment needed when handling small quantities.

## **Body protection**

See Other protection below

## Other protection

- Overalls.
- ► Skin cleansing cream.
- Evewash unit.

OTHERWISE:

Not Available

► Do not spray on hot surfaces.

# Thermal hazards

Respiratory protection

Not Available

# **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

# Information on basic physical and chemical properties

Appearance	22aer Clear liquid; not miscible with water.		
Physical state	#00Liquid	Relative density (Water = 1)	0.80
Odour	Not Available	Partition coefficient n-octanol / water	Not Available

Issue Date: 11/03/2014 Print Date: 10/11/2015

Odour threshold	Not Available	Auto-ignition temperature (°C)	220
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	268-308	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	129	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Negligible	Gas group	Not Available
Solubility in water (g/L)	#01immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	8.1	VOC g/L	Not Available

## **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7
Chemical stability	<ul> <li>Elevated temperatures.</li> <li>Presence of open flame.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

## **SECTION 11 TOXICOLOGICAL INFORMATION**

# Information on toxicological effects

Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination,

Inhalation of aerosols (mists, furnes), generated by the material during the course of normal handling, may be damaging to the health of the individual. There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.

Inhalation of toxic gases may cause:

- ▶ Central Nervous System effects including depression, headache, confusion, dizziness, stupor, coma and seizures;
- respiratory: acute lung swellings, shortness of breath, wheezing, rapid breathing, other symptoms and respiratory arrest;
- ▶ heart: collapse, irregular heartbeats and cardiac arrest;

## Inhaled

• gastrointestinal: irritation, ulcers, nausea and vomiting (may be bloody), and abdominal pain.

Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination.

Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal. Inhalation of oil droplets or aerosols may cause discomfort and may produce chemical inflammation of the lungs.

Material is highly volatile and may quickly form a concentrated atmosphere in confined or unventilated areas. The vapour may displace and replace air in breathing zone, acting as a simple asphyxiant. This may happen with little warning of overexposure.

WARNING: Intentional misuse by concentrating/inhaling contents may be lethal.

Exposure to hydrocarbons may result in irregularity of heart beat. Symptoms of moderate poisoning may include dizziness, headache, nausea.

Ingestion

Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733)

Accidental ingestion of the material may be damaging to the health of the individual. Not normally a hazard due to physical form of product.

Considered an unlikely route of entry in commercial/industrial environments

Skin Contact

Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. Spray mist may produce discomfort Irritation and skin reactions are possible with sensitive skin

Open cuts, abraded or irritated skin should not be exposed to this material

The material may accentuate any pre-existing dermatitis condition

Eve

There is some evidence to suggest that this material can cause eye irritation and damage in some persons.

Not considered to be a risk because of the extreme volatility of the gas.

Chronic

There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment.

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Principal route of occupational exposure to the gas is by inhalation.

Oil may contact the skin or be inhaled. Extended exposure can lead to eczema, inflammation of hair follicles, pigmentation of the face and warts on the soles of the feet.

Start Up Aerosol
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TOXICITY IRRITATION Not Available Not Available Chemwatch: 21-9693 Version No: 3.1.1.1

Page 6 of 9

Start Up Aerosol

Issue Date: 11/03/2014 Print Date: 10/11/2015

	l		
	TOXICITY	IRRITATION	
white mineral oil (petroleum)	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available	
(ponoicum)	Oral (rat) LD50: >5000 mg/kg <sup>[1]</sup>		
	TOXICITY	IRRITATION	
	Inhalation (mouse) LC50: >15.6<17.9 mm/l2 h <sup>[1]</sup>	Not Available	
	Inhalation (mouse) LC50: >15.6<17.9 mm/l2 h <sup>[1]</sup>		
	Inhalation (mouse) LC50: 410000 ppm2 h <sup>[1]</sup>		
	Inhalation (mouse) LC50: 410000 ppm2 h <sup>[1]</sup>		
	Inhalation (rat) LC50: >800000 ppm15 min <sup>[1]</sup>		
	Inhalation (rat) LC50: >800000 ppm15 min <sup>[1]</sup>		
hydrocarbon propellant	Inhalation (rat) LC50: 1354.944 mg/L15 min <sup>[1]</sup>		
	Inhalation (rat) LC50: 1355 mg/l15 min <sup>[1]</sup>	1	
	Inhalation (rat) LC50: 1442.738 mg/L15 min <sup>[1]</sup>	1	
	Inhalation (rat) LC50: 1442.738 mg/L15 min <sup>[1]</sup>		
	Inhalation (rat) LC50: 1443 mg/l15 min <sup>[1]</sup>	 	
	Inhalation (rat) LC50: 1443 mg/l15 min <sup>[1]</sup>		
	Inhalation (rat) LC50: 570000 ppm15 min <sup>[1]</sup>	 	
Legend:	Value obtained from Europe ECHA Registered Substance     extracted from RTECS - Register of Toxic Effect of chemical		from manufacturer's SDS. Unless otherwise specified data
A souts Tambelto	0	Canalina maniati	
Acute Toxicity Skin Irritation/Corrosion	0	Carcinogenicity	0
Serious Eye			
Damage/Irritation	0	STOT - Single Exposure	0
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity	0	Aspiration Hazard	0

Legend: X – Data available but does not fill the criteria for classification

v – Data required to make classification available

On - Data Not Available to make classification

# **SECTION 12 ECOLOGICAL INFORMATION**

# Toxicity

Ingredient	Endpoint	Test Duration	Species	Value	Source
white mineral oil (petroleum)	LC50	96	Fish	>10000mg/L	2
hydrocarbon propellant	LC50	96	Fish	24.110mg/L	2
hydrocarbon propellant	EC50	96	Algae or other aquatic plants	7.710mg/L	2
hydrocarbon propellant	LC50	96	Fish	24.110mg/L	2
hydrocarbon propellant	EC50	96	Algae or other aquatic plants	7.710mg/L	2

Version No: 3.1.1.1

Start Up Aerosol

Issue Date: **11/03/2014**Print Date: **10/11/2015** 

For Hydrocarbons: log Kow 1. BCF~10.

For Aromatics: log Kow 2-3.

BCF 20-200. For C5 and greater alkanes: log Kow 3-4.5. BCF 100-1,500.

For Alkanes, Benzene, Toluene, Ethylbenzene, Xylene (BTEX):

Environmental Fate: Microbes found in many natural settings (e.g., soils, groundwater, ponds) have been shown to be capable of degrading organic compounds. Some hydrocarbons will become associated with marine sediments likely to be spread over a fairly wide area of sea floor. Under aerobic conditions, hydrocarbons degrade to water and carbon dioxide, while under anaerobic processes, they produce water, methane and carbon dioxide. Anaerobic degradation is slower than aerobic. Biodegradation can eliminate the contaminants without dispersing them throughout the environment. The rate of hydrocarbon degradation depends on the chemical composition of the product released to the environment as well as site-specific environmental factors. Hydrocarbons with condensed ring structures, such as PAHs (polycyclic aromatic hydrocarbons) with four or more rings, have been shown to be relatively resistant to biodegradation. PAHs with only 2 or 3 rings (e.g., naphthalene, anthracene) are more easily biodegraded. In almost all cases, the presence of oxygen is essential for effective biodegradation. Straight chain hydrocarbons and aromatics degrade more readily than highly branched aliphatic compounds. The n-alkanes, n-alkyl aromatics, and the aromatics in the C10-C22 range are the most readily biodegradable; n-alkanes, n-alkyl aromatics, and aromatics in the C5-C9 range are biodegradable at low concentrations by some microorganisms, but are generally preferentially removed by volatilization and thus are unavailable in most environments; n-alkanes in the C1-C4 ranges are biodegradable only by a narrow range of specialized hydrocarbon degraders; n-alkanes, n-alkyl aromatics, and aromatics above C22 are generally not available to degrading microorganisms. The ideal pH range to promote biodegradation is close to neutral (6-8). For most species, the optimal pH is slightly alkaline, that is, greater than 7. Generally, as the temperature increases, biological activity tends to increase up to a temperature where enzyme denaturation occur

Atmospheric Fate: Alkanes, isoalkanes, and cycloalkanes have half-lives on the order of 1-10 days, whereas alkenes, cycloalkenes, and substituted benzenes have half-lives of 1 day or less. Photochemical oxidation products include aldehydes, hydroxy compounds, nitro compounds, and peroxyacyl nitrates. Alkenes, certain substituted aromatics, and naphthalene are potentially susceptible to direct photolysis.

Aquatic Fate: Volatilization half-life predicted as 7 days (ponds), 1.5 days (rivers), 6 days (lakes). Volatilization rate of naphthalene and its substituted derivatives estimated to be slower. The lower molecular weight hydrocarbons are expected to form a "slick" on the surface of waters after release in calm seas which is expected to evaporate and enter the atmosphere where it will be degraded through reaction with hydroxy radicals. Ecotoxicity: Effects on freshwater/saltwater organisms: Hydrocarbons are hydrophobic. Such substances produce toxicity in aquatic organisms by a mechanism referred to as "non-polar narcosis" or "baseline" toxicity. Toxic effects are often observed in species such as blue mussel, water fleas, freshwater green algae, marine copepods and amphipods.

Drinking Water Standards: hydrocarbon total: 10 ug/l (UK max.).

DO NOT discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

## **Bioaccumulative potential**

Ingredient	Bioaccumulation
	No Data available for all ingredients

## Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

## **SECTION 13 DISPOSAL CONSIDERATIONS**

# Waste treatment methods

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- ▶ It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Product / Packaging disposal
- Where in doubt contact the responsible authority.
   Consult State Land Waste Management Authority for disposal.
- Discharge contents of damaged aerosol cans at an approved site.
- ► Allow small quantities to evaporate.
- ▶ DO NOT incinerate or puncture aerosol cans
- ▶ Bury residues and emptied aerosol cans at an approved site.

## **SECTION 14 TRANSPORT INFORMATION**

# Labels Required



Marine Pollutant	NO
HAZCHEM	2YE

## Land transport (ADG)

Land transport (ADG)		
UN number	1950	
Packing group	Not Applicable	
UN proper shipping name	AEROSOLS, NON-FLAMMABLE	
Environmental hazard	No relevant data	
Transport hazard class(es)	Class 2.2 Subrisk Not Applicable	

Chemwatch: 21-9693 Page 8 of 9 Version No: 3.1.1.1

Start Up Aerosol

Issue Date: 11/03/2014 Print Date: 10/11/2015

	Special provisions 631	190 277 327 344			
Special precautions for user	Limited quantity 1000ml				
Air transport (ICAO-IATA / E	OGR)				
UN number	1950				
Packing group	Not Applicable				
UN proper shipping name	Aerosols, non-flammable (containing biological products or a medicinal preparation which will be deteriorated by a heat test); Aerosols, non-flammable				
Environmental hazard	No relevant data				
Transport hazard class(es)	ICAO/IATA Class 2.2				
	ICAO / IATA Subrisk N	Not Applicable			
	ERG Code 2L				
	Special provisions		A98A145A167A802		
	Cargo Only Packing Instructions		204; 203		
	Cargo Only Maximum Qty		150 kg		
Special precautions for user	Passenger and Cargo Packing Instructions		204; 203		
	Passenger and Cargo Maximum Qty / Pack		75 kg		
	Passenger and Cargo Limited Quantity Packing Instructions		Y204; Y203		
	Passenger and Cargo Limited Maximum Qty / Pack		30 kg G		
Sea transport (IMDG-Code	/ GGVSee)				
UN number	1950				
Packing group	Not Applicable				
UN proper shipping name	AEROSOLS				
Environmental hazard	Not Applicable				
Transport hazard class(es)	IMDG Class 2.2  IMDG Subrisk Not Applicable				
Special precautions for user		D , S-U 190 277 327 344 959			

# **SECTION 15 REGULATORY INFORMATION**

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

See SP277

# WHITE MINERAL OIL (PETROLEUM)(8042-47-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Limited Quantities

Australia Exposure Standards Australia Inventory of Chemical Substances (AICS)

Australia Hazardous Substances Information System - Consolidated Lists International Agency for Research on Cancer (IARC) - Agents Classified by the IARC

Monographs

## HYDROCARBON PROPELLANT(68476-86-8.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards Australia Inventory of Chemical Substances (AICS)

Australia Hazardous Substances Information System - Consolidated Lists

National Inventory	Status		
Australia - AICS	Υ		
Canada - DSL	Υ		
Canada - NDSL	N (hydrocarbon propellant; white mineral oil (petroleum))		
China - IECSC	Υ		
Europe - EINEC / ELINCS / NLP	Y		
Japan - ENCS	N (white mineral oil (petroleum))		
Korea - KECI	Υ		
New Zealand - NZIoC	Y		
Philippines - PICCS	Υ		
USA - TSCA	Υ		
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)		

# **SECTION 16 OTHER INFORMATION**

 Chemwatch: 21-9693
 Page 9 of 9
 Issue Date: 11/03/2014

 Version No: 3.1.1.1
 Start Un Aprocol
 Print Date: 10/11/2015

# Start Up Aerosol

Ingredients with multiple cas numbers

Name	CAS No
hydrocarbon propellant	68476-85-7., 68476-86-8.

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

## **Definitions and abbreviations**

PC — TWA: Permissible Concentration-Time Weighted Average PC — STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL: No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index