# **Electus Distribution**

Chemwatch: 04-0336 Version No: 2.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 4

Issue Date: 01/01/2013 Print Date: 11/04/2015 Initial Date: Not Available L.GHS.AUS.EN

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

### **Product Identifier**

Product name	Servisol NA1504 Aerosol Contact Adhesive, 400 gram	
Synonyms	t Available	
Proper shipping name	EROSOLS	
Other means of identification	Not Available	

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

Relevant identified uses	Application is by spray atomisation from a hand held aerosol pack
	Use according to manufacturer's directions.
	Contact adhesive.

# Details of the manufacturer/importer

Registered company name	Electus Distribution	
Address	320 Victoria Road Rydalmere 2116 NSW Australia	
Telephone	1300 738 555	
Fax	1300 758 500	
Website	Not Available	
Email	Not Available	

# Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

# SECTION 2 HAZARDS IDENTIFICATION

# Classification of the substance or mixture

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

# CHEMWATCH HAZARD RATINGS

		Min	Max
Flammability	4		
Toxicity	2		
Body Contact	2		
Reactivity	1		
Chronic	2		

Poisons Schedule	Not Applicable
GHS Classification <sup>[1]</sup>	Flammable Aerosol Category 1, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2, Reproductive Toxicity Category 2, STOT - SE (Narcosis) Category 3, STOT - RE Category 2, Chronic Aquatic Hazard Category 3

Legend:

1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex

#### Label elements



SIGNAL WORD DAM

DANGER

VI

# Hazard statement(s)

H222	Extremely flammable aerosol	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H361	Suspected of damaging fertility or the unborn child	
H336	May cause drowsiness or dizziness	
H373	May cause damage to organs through prolonged or repeated exposure	
H412	Harmful to aquatic life with long lasting effects	
AUH044	Risk of explosion if heated under confinement	

# Precautionary statement(s) Prevention

P201	Obtain special instructions before use.	
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.	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P273	Avoid release to the environment.	

## Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/attention.		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P312	all a POISON CENTER/doctor/physician/first aider/if you feel unwell.		
P337+P313	If eye irritation persists: Get medical advice/attention.		
P302+P352	IF ON SKIN: Wash with plenty of water and soap		
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
P332+P313	If skin irritation occurs: Get medical advice/attention.		
P362+P364	Take off contaminated clothing and wash it before reuse.		

# Precautionary statement(s) Storage

P405	Store locked up.	
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.	
P403+P233	P403+P233 Store in a well-ventilated place. Keep container tightly closed.	

# Precautionary statement(s) Disposal

P501

Dispose of contents/container to authorised chemical landfill or if organic to high temperature incineration

# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

# Substances

See section below for composition of Mixtures

# Mixtures

Issue Date: 01/01/2013 Print Date: 11/04/2015

#### Servisol NA1504 Aerosol Contact Adhesive

CAS No	%[weight]	Name
64742-49-0.	10-30	naphtha petroleum, light, hydrotreated
110-54-3	10-30	<u>n-hexane</u>
64742-89-8.	5-15	solvent naphtha petroleum, light aliphatic
Not Available	<20	ingredients nonhazardous
68476-85-7.	10-30	hydrocarbon propellant

### SECTION 4 FIRST AID MEASURES

#### Description of first aid measures

Eye Contact	<ul> <li>If aerosols come in contact with the eyes:</li> <li>Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes with fresh running water.</li> <li>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.</li> <li>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	If aerosols, fumes 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	If swallowed do <b>NOT</b> induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

# 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]

#### 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 Incommobility	- ///010/00/10
Fire Incompatibility	result

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

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>If safe, switch off electrical equipment until vapour fire hazard removed.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Liquid and vapour are flammable.</li> <li>Moderate fire hazard when exposed to heat or flame.</li> <li>Vapour forms an explosive mixture with air.</li> <li>Moderate explosion hazard when exposed to heat or flame.</li> <li>Vapour may travel a considerable distance to source of ignition.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>Aerosol cans may explode on exposure to naked flame.</li> <li>Rupturing containers may rocket and scatter burning materials.</li> <li>Hazards may not be restricted to pressure effects.</li> <li>May emit acrid, poisonous or corrosive fumes.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>Combustion products include; carbon dioxide (CO2) other pyrolysis products typical of burning organic material</li> </ul>

### SECTION 6 ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Minor Spills	<ul> <li>Wear protective clothing, impervious gloves and safety glasses.</li> <li>Shut off all possible sources of ignition and increase ventilation.</li> <li>Wipe up.</li> <li>If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated.</li> <li>Undamaged cans should be gathered and stowed safely.</li> </ul>
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses</li> <li>No smoking, naked lights or ignition sources.</li> <li>Increase ventilation.</li> <li>Stop leak if safe to do so.</li> <li>Water spray or fog may be used to disperse / absorb vapour.</li> <li>Absorb or cover spill with sand, earth, inert materials or vermiculite.</li> <li>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.</li> </ul>

# SECTION 7 HANDLING AND STORAGE

# 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.
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 MSDS.

	<ul> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> </ul>
Other information	<ul> <li>Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can</li> <li>Store in original containers in approved flammable liquid storage area.</li> <li>DO NOT store in pits, depressions, basements or areas where vapours may be trapped.</li> <li>No smoking, naked lights, heat or ignition sources.</li> <li>Keep containers securely sealed. Contents under pressure.</li> <li>Store in a cool, dry, well ventilated area.</li> <li>Avoid storage at temperatures higher than 40 deg C.</li> <li>Store in an upright position.</li> <li>Protect containers against physical damage.</li> <li>Check regularly for spills and leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this MSDS.</li> </ul>

# Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>DO NOT use aluminium or galvanised containers</li> <li>Aerosol dispenser.</li> <li>Check that containers are clearly labelled.</li> </ul>
Storage incompatibility	Avoid storage with oxidisers

# PACKAGE MATERIAL INCOMPATIBILITIES

Not Available

# 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	n-hexane	Hexane (n-Hexane)	72 mg/m3 / 20 ppm	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
n-hexane	Hexane	300 ppm	Not Available	Not Available
solvent naphtha petroleum, light aliphatic	Rubber solvent; (Naphtha (petroleum) light aliphatic)	264 ppm	1700 ppm	10000 ppm
hydrocarbon propellant	Liquified petroleum gas; (L.P.G.)	3,000 ppm	3200 ppm	19000 ppm
Ingredient	Original IDLH	Revised IDLH		
naphtha petroleum, light, hydrotreated	Not Available	Not Available		
n-hexane	5,000 ppm	1,100 [LEL] ppm		
solvent naphtha petroleum, light aliphatic	Not Available	Not Available		
ingredients nonhazardous	Not Available	Not Available		
hydrocarbon propellant	19,000 [LEL] ppm	2,000 [LEL] ppm		

# MATERIAL DATA

NOTE M: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0.005% w/w benzo[a]pyrene (EINECS No 200-028-5). This note applies only to certain complex oil-derived substances in Annex IV.

European Union (EU) List of Dangerous Substances (Annex IV).

NOTE P: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0.01% w/w benzene (EINECS No 200-753-7). Note E shall also apply when the substance is classified as a carcinogen. This note applies only to certain complex oil-derived substances in Annex VI.

Continued...

### Servisol NA1504 Aerosol Contact Adhesive

European Union (EU) List of Dangerous Substances (Annex VI).

NOTE K: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0.1%w/w 1,3-butadiene (EINECS No 203-450-8). - European Union (EU) List of Dangerous Substances (Annex VI).

	Engineering controls are used to remove a hazard or place a barrier between the engineering controls can be highly effective in protecting workers and will typical 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 dor Enclosure and/or isolation of emission source which keeps a selected hazard "ph ventilation that strategically "adds" and "removes" air in the work environment. Vo contaminant if designed properly. The design of a ventilation system must match contaminant in use. Employers may need to use multiple types of controls to prevent employee ove General exhaust is adequate under normal conditions. If risk of overexposure exi 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 velocities" of fresh circulating air required to effectively remove the contaminant	ly be independent on the to reduce the risk mysically" away from entilation can remove the particular proce erexposure. ists, wear SAA approve which, in turn, deter	of worker interactions to k. the worker and ve or dilute an air tess and chemical or roved respirator. Correct
	Type of Contaminant:		Speed:
Appropriate	aerosols, (released at low velocity into zone of active generation)		0.5-1 m/s
engineering controls	direct spray, spray painting in shallow booths, gas discharge (active generation air motion)	into zone of rapid	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 r	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	
	3: Intermittent, low production.	3: High production	
		5 1	
	4: Large hood or large air mass in motion Simple theory shows that air velocity falls rapidly with distance away from the or generally decreases with the square of distance from the extraction point (in sim extraction point should be adjusted, accordingly, after reference to distance from	pple cases). Therefore the contaminating	extraction pipe. Velocity ore the air speed at the source. The air velocity
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	<ul> <li>Skin cleansing cream.</li> <li>Eyewash unit.</li> <li>Do not spray on hot surfaces.</li> </ul>
Thermal hazards	Not Available

#### Recommended material(s)

#### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

Servisol NA1504 Aerosol Contact Adhesive, 400 gram

Material	CPI
PE/EVAL/PE	A
PVA	A
SARANEX-23 2-PLY	А
VITON	А
VITON/CHLOROBUTYL	А
NITRILE	В
TEFLON	В
BUTYL	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE+PVC	С
PVC	С

#### **Respiratory protection**

Type AX Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 5 x ES	AX-AUS / Class 1 P3	-	AX-PAPR-AUS / Class 1 P3
up to 25 x ES	Air-line*	AX-2 P3	AX-PAPR-2 P3
up to 50 x ES	-	AX-3 P3	-
50+ x ES	-	Air-line**	-

#### ^ - Full-face

# \* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion
C: Poor to Dangerous Choice for other than short term immersion
NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. \* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Appearance	Supplied as an aerosol pack. Contents under <b>PRESSURE</b> .	Contains highly flammable	e hydrocarbon propellant.
Physical state	Liquid	Relative density (Water = 1)	0.76 approx.
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	-81	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	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)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	>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

	<b>.</b>
Inhaled	Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. Acute effects from inhalation of high concentrations of vapour are pulmonary irritation, including coughing, with nausea; central nervous system depression - characterised by headache and dizziness, increased reaction time, fatigue and loss of co-ordination WARNING:Intentional misuse by concentrating/inhaling contents may be lethal.
Ingestion	Not normally a hazard due to physical form of product. Accidental ingestion of the material may be damaging to the health of the individual. Central nervous system (CNS) depression may include nonspecific 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. Swallowing of the liquid may cause aspiration of vomit into the lungs with the risk of haemorrhaging, pulmonary oedema, progressing to chemical pneumonitis; serious consequences may result. Signs and symptoms of chemical (aspiration) pneumonitis may include coughing, gasping, choking, burning of the mouth, difficult breathing, and bluish coloured skin (cyanosis).
Skin Contact	<ul> <li>Skin contact with the material may damage the health of the individual; systemic effects may result following absorption.</li> <li>The material produces mild skin irritation; evidence exists, or practical experience predicts, that the material either</li> <li>produces mild inflammation of the skin in a substantial number of individuals following direct contact, and/or</li> <li>produces significant, but mild, inflammation when applied to the healthy intact skin of animals (for up to four hours), such inflammation being present twenty-four hours or more after the end of the exposure period.</li> <li>Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis.</li> </ul>
Eye	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.
Chronic	Principal routes of exposure are by accidental skin and eye contact and by inhalation of vapours especially at higher temperatures. Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes. [PATTYS] Chronic inhalation or skin exposure to n-hexane may cause peripheral neuropathy, which is damage to nerve ends in extremities, e.g. fingers, with loss of sensation and characteristic thickening. Nerve damage has been documented with chronic exposures of greater than 500 ppm. Improvement in condition does not immediately follow removal from exposure and symptoms may progress for two or three months. Recovery may take a year or more depending on severity of exposure, and may not always be complete. Exposure to n-hexane with methyl ethyl ketone (MEK) will accelerate the appearance of damage, but MEK alone will not cause the nerve damage. Other isomers of hexane do not cause nerve

damage. [	Source:	Shell	Co.]
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Servisol NA1504	TOXICITY	IRRITATION
Aerosol Contact Adhesive, 400 gram	Not Available	Not Available
	TOXICITY	IRRITATION
naphtha petroleum, light, hydrotreated	Dermal (rabbit) LD50: >1900 mg/kg <sup>[1]</sup>	Not Available
ngni, nyuroneateu	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>	
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: >3301.5 mg/kg <sup>[1]</sup>	Eye(rabbit): 10 mg - mild
n-hexane	Inhalation (rat) LC50: 48000 ppm/4H <sup>[2]</sup>	
	Oral (rat) LD50: 15847.2 mg/kg <sup>[1]</sup>	
solvent naphtha	TOXICITY	IRRITATION
petroleum, light	Dermal (rabbit) LD50: >1900 mg/kg <sup>[1]</sup>	Not Available
aliphatic	Oral (rat) LD50: >4500 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: 410000 ppm2 h <sup>[1]</sup>	
	Inhalation (rat) LC50: >570000<17.9 ppm15 min <sup>[1]</sup>	
hydrocarbon	Inhalation (rat) LC50: >800000 ppm15 min <sup>[1]</sup>	
propellant	Inhalation (rat) LC50: 1354.944 mg/L15 min <sup>[1]</sup>	
	Inhalation (rat) LC50: 1355 mg/l15 min <sup>[1]</sup>	
	Inhalation (rat) LC50: 1442.738 mg/L15 min <sup>[1]</sup>	
	Inhalation (rat) LC50: 1443 mg/l15 min <sup>[1]</sup>	
Legend:	1. Value obtained from Europe ECHA Registered Substanc Unless otherwise specified data extracted from RTECS -	es - Acute toxicity 2.* Value obtained from manufacturer's msds. Register of Toxic Effect of chemical Substances

Studies indicate that normal, branched and cyclic paraffins are absorbed from the mammalian gastrointestinal tract and that the absorption of n-paraffins is inversely proportional to the carbon chain length, with little absorption above C30. With respect to the carbon chain lengths likely to be present in mineral oil, n-paraffins may be absorbed to a greater extent that iso- or cyclo-paraffins.

The major classes of hydrocarbons have been shown to be well absorbed by the gastrointestinal tract in various species. In many cases, the hydrophobic hydrocarbons are ingested in association with dietary lipids. The dependence of hydrocarbon absorption on concomitant triglyceride digestion and absorption, is known as the "hydrocarbon continuum hypothesis", and asserts that a series of solubilising phases in the intestinal lumen, created by dietary triglycerides and their digestion products, afford hydrocarbons a route to the lipid phase of the intestinal absorptive cell (enterocyte) membrane. While some hydrocarbons may traverse the mucosal epithelium unmetabolised and appear as solutes in lipoprotein particles in intestinal lymph, there is evidence that most hydrocarbons partially separate from nutrient lipids and undergo metabolic transformation in the enterocyte. The enterocyte may play a major role in determining the proportion of an absorbed hydrocarbon that, by escaping initial biotransformation, becomes available for deposition in its unchanged form in peripheral tissues such as adipose tissue, or in the liver.

NAPHTHA PETROLEUM, LIGHT, HYDROTREATED

The High Benzene Naphthas (HBNs) Category was developed for the HPV Program by grouping ethylene manufacturing streams (products) that exhibit commonalities from both manufacturing process and compositional perspectives. intermediates. The category includes hydrocarbon product streams associated with the ethylene industry that contain significant levels of benzene, generally with a benzene content greater than 10% and averaging about 55%. This grouping of CAS numbers represents hydrocarbon streams with a carbon number distribution that is predominantly C5- C11, through components boiling at 350 C or higher..

Benzene, as the predominant component in most streams, is expected to be the key driver with respect to health effects endpoints within the SIDS battery of tests. However, as the concentration of benzene is decreased and the concentrations of other components are increased, the observed effects of benzene are expected to diminish and the effects of other components are expected to increase.

The existing epidemiology and toxicology database for the components other than benzene and for mixtures containing the components is extensive. All components present in the streams at concentrations greater than 5% have been tested in at least one toxicity study. Those components having only limited data lack structural alerts for mammalian toxicity and data exist for their structural analogs. The C5 and C6 alkanes and alkenes present in the streams are not expected to significantly contribute to the toxicity profile as these substances are present in the streams at low concentrations and, with the exception of hexane, generally have a low level of toxicity. The toxic effects of hexane (present at < 15%)

are unlikely to be observed due to the presence of the other components.

**Genotoxicity:** When tested as pure substances, some of the components other than benzene have caused genetic damage and adverse target organ effects in repeated-dose animal studies. When tested as pure substances, some of the components other than benzene have caused genetic damage and adverse target organ effects in repeated-dose animal studies. However, since the biologically active components of the High Benzene Naphthas streams are metabolized through a common P450 metabolic pathway, it is anticipated that multiple components will compete for the same active enzyme sites. Component toxicities, which are dependent on the formation of biologically active metabolites, may be reduced as less metabolite(s) will be produced through competition for these sites. Direct support for reduction or elimination of toxicities of individual components is provided by results of an existing mouse bone marrow micronucleus test with one of the High Benzene Naphthas streams, Hydrotreated C6-8 Fraction. This stream, containing approximately 55% benzene, was negative in a mouse bone marrow micronucleus test when administered by oral gavage at 5000 mg/kg to male and female CD-1 mice. Several studies have shown that benzene administered orally to CD-1 mice induces high frequencies of micronuclei in bone marrow erythrocytes at doses as low as 110 mg/kg . The presence in the Hydrotreated C6-8 Fraction of other components (approximately 25% toluene, 10% xylene, 7% pentane, 7% ethylbenzene, 3% cyclohexane, and 2% hexane) apparently inhibited the expected clastogenicity of benzene. Other similar interactions between components of the category have also been reported.

**Repeat dose toxicity:** Repeated oral or inhalation exposures to many of the components of the streams in the category have been shown to cause adverse health effects in a variety of organs. However, existing data also show that antagonistic and synergistic interactions occur between some components comprising the streams.

**Developmental toxicity:** Developmental toxicity data exist for most components present in this category at concentrations greater than 5%. In these studies, no convincing evidence was seen for teratogenicity in the absence of maternal toxicity. Foetotoxicity has been reported for some components, but mostly in the presence of maternal toxicity. A Pyrolysis

Gasoline Fraction stream similar to the Pyrolysis Gasoline streams in the HBNs Category has been tested in an oral developmental toxicity study in rabbits. No developmental effects were seen.

**Reproductive toxicity:** Some data for benzene indicates adverse gonadal effects (e.g., atrophy/degeneration, decrease in spermatozoa, moderate increases in abnormal sperm forms), data on reproductive outcomes are either inconclusive or conflicting. However, most studies indicate no effects on reproductive indices, even at high doses. Reproductive organ effects were seen after inhalation exposure to isoprene and hexane.

**Gene Mutation:** Of the identified category components present at concentrations greater than 5%, only 1,3-butadiene and benzene have consistently caused gene mutations in genetic toxicity tests . 1,3- Butadiene was positive in several *in vivo* and *in vitro* tests. Benzene was negative in several standard tests but was positive in an *in vivo* HPRT gene mutation test in mouse spleenocytes. Based on the data for components, the streams in the category are predicted to be negative in the HPV gene mutation test (Ames Test). Negative Ames Tests conducted with two streams (one from this category and one similar to category streams) support this prediction

**Chromosome Aberration:**: Benzene has caused chromosome aberrations in *in vitro* and *in vivo* tests. The other most prevalent component in streams in this category, toluene, is negative in both *in vitro* and *in vivo* tests. Of the remaining identified category components present at concentrations greater than 5%, only vinyl acetate, 1,3-butadiene, isoprene, hexane, and naphthalene have been reported to cause chromosome aberrations

#### for petroleum:

irritants may produce conjunctivitis.

This product contains benzene which is known to cause acute myeloid leukaemia and n-hexane which has been shown to metabolize to compounds which are neuropathic.

This product contains toluene. There are indications from animal studies that prolonged exposure to high concentrations of toluene may lead to hearing loss.

This product contains ethyl benzene and naphthalene from which there is evidence of tumours in rodents

**Carcinogenicity:** Inhalation exposure to mice causes liver tumours, which are not considered relevant to humans. Inhalation exposure to rats causes kidney tumours which are not considered relevant to humans.

**Mutagenicity:** There is a large database of mutagenicity studies on gasoline and gasoline blending streams, which use a wide variety of endpoints and give predominantly negative results. All in vivo studies in animals and recent studies in exposed humans (e.g. petrol service station attendants) have shown negative results in mutagenicity assays.

**Reproductive Toxicity:** Repeated exposure of pregnant rats to high concentrations of toluene (around or exceeding 1000 ppm) can cause developmental effects, such as lower birth weight and developmental neurotoxicity, on the foetus. However, in a two-generation reproductive study in rats exposed to gasoline vapour condensate, no adverse effects on the foetus were observed.

**Human Effects:** Prolonged/ repeated contact may cause defatting of the skin which can lead to dermatitis and may make the skin more susceptible to irritation and penetration by other materials.

Lifetime exposure of rodents to gasoline produces carcinogenicity although the relevance to humans has been questioned. Gasoline induces kidney cancer in male rats as a consequence of accumulation of the alpha2-microglobulin protein in hyaline droplets in the male (but not female) rat kidney. Such abnormal accumulation represents lysosomal overload and leads to chronic renal tubular cell degeneration, accumulation of cell debris, mineralisation of renal medullary tubules and necrosis. A sustained regenerative proliferation occurs in epithelial cells with subsequent neoplastic transformation with continued exposure. The alpha2-microglobulin is produced under the influence of hormonal controls in male rats but not in females and, more importantly, not in humans. DHC Solvent Chemie (for EC No.: 926-605-8)

#### N-HEXANE

SOLVENT NAPHTHA PETROLEUM, LIGHT for petroleum:

The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to

This product contains benzene which is known to cause acute myeloid leukaemia and n-hexane which has been shown to

ALIPHATIC	<ul> <li>metabolize to compounds which are neuropathic.</li> <li>This product contains toluene. There are indications from animal studies that prolonged exposure to high concentrations of toluene may lead to hearing loss.</li> <li>This product contains ethyl benzene and naphthalene from which there is evidence of tumours in rodents</li> <li>Carcinogenicity: Inhalation exposure to mice causes liver tumours, which are not considered relevant to humans.</li> <li>Inhalation exposure to rats causes kidney tumours which are not considered relevant to humans.</li> <li>Mutagenicity: There is a large database of mutagenicity studies on gasoline and gasoline blending streams, which use a wide variety of endpoints and give predominantly negative results. All in vivo studies in animals and recent studies in exposed humans (e.g. petrol service station attendants) have shown negative results in mutagenicity assays.</li> <li>Reproductive Toxicity: Repeated exposure of pregnant rats to high concentrations of toluene (around or exceeding 1000 ppm) can cause developmental effects, such as lower birth weight and developmental neurotoxicity, on the foetus.</li> <li>However, in a two-generation reproductive study in rats exposed to gasoline vapour condensate, no adverse effects on the foetus were observed.</li> <li>Human Effects: Prolonged/ repeated contact may cause defatting of the skin which can lead to dermatitis and may make the skin more susceptible to irritation and penetration by other materials.</li> <li>Lifetime exposure of rodents to gasoline produces carcinogenicity although the relevance to humans has been questioned. Gasoline induces kidney cancer in male rats as a consequence of accumulation of the alpha2-microglobulin protein in hyaline droplets in the male (but not female) rat kidney. Such abnormal accumulation of the alpha2-microglobulin protein in hyaline droplets in the male (but not female) rat kidney. Such abnormal accumulation of neal medullary tubules and necrosis. A sustained regenerative proliferation occu</li></ul>
HYDROCARBON PROPELLANT	No significant acute toxicological data identified in literature search. for Petroleum Hydrocarbon Gases: In many cases, there is more than one potentially toxic constituent in a refinery gas. In those cases, the constituent that is most toxic for a particular endpoint in an individual refinery stream is used to characterize the endpoint hazard for that stream. The hazard potential for each mammalian endpoint for each of the petroleum hydrocarbon gases is dependent upon each petroleum hydrocarbon gas constituent endpoint toxicity values (LC50, LOAEL, etc.) and the relative concentration of the different constituents in each, distinct petroleum hydrocarbon gas. All Hydrocarbon Gases Category members contain primarily hydrocarbons (i.e., alkanes and alkenes) and occasionally asphysiont gases like hydrogen. The inorganic components of the petroleum hydrocarbon gases are less toxic than the C1 - C4 and C5 - C6 hydrocarbon components to both mammalian and aquatic organisms. Unlike other petroleum product categories (e.g. gascline, diesel tuel, lubricating oils, etc.), the inorganic and hydrocarbon constituents of hydrocarbon gases can be evaluated for hazard individually to then predict the screening level hazard of the Category members Acute toxicity: No acute toxicity LC50 values have been derived for the C1 - C4 and C5 - C6 hydrocarbon (HC) fractions because no mortality was observed at the highest exposure levels tested (-5 mg/l) for these petroleum hydrocarbon gas can be avaluated for gases (hydrogen, carbon dixide, nitrogen). Repeat dose toxicity: With the exception of the asphyxiant gases, repeated dose toxicity has been observed in individual selected petroleum hydrocarbon gas constituents from most to least toxic is: Berzene (LOAEL = -10 ppm) > 01-C4 HC3 (LC6D = 10.000 ppm; assumed to be 100% 2-butene) > C5-C6 HC5 (LOAEL = 6 6.255 ppm) > batadiene (LOAEL = 8.000 ppm) > asphyxiant gases, repeated dose toxicity has been observed in individual selected petroleum hydrocarbon Gases Category co

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Skin Irritation/Corrosion	~	Reproductivity	~	
Serious Eye Damage/Irritation	<b>~</b>	STOT - Single Exposure	~	
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	~	
Mutagenicity	8	Aspiration Hazard		
		Legend: ✓ – Data required to make classification available X – Data available but does not fill the criteria for classification N – Data Not Available to make classification		

CMR STATUS

Not Applicable

# SECTION 12 ECOLOGICAL INFORMATION

#### Toxicity

#### NOT AVAILABLE

Ingredient	Endpoint	Test Duration	Effect	Value	Species	BCF
naphtha petroleum, light, hydrotreated	Not Available					
n-hexane	Not Available					
solvent naphtha petroleum, light aliphatic	Not Available					
ingredients nonhazardous	Not Available					
hydrocarbon propellant	Not Available					

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

**DO NOT** discharge into sewer or waterways.

Toxic to aquatic organisms.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

May cause long-term adverse effects in the aquatic environment.

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
n-hexane	LOW	LOW

# **Bioaccumulative potential**

Ingredient	Bioaccumulation
n-hexane	MEDIUM (LogKOW = 3.9)

#### Mobility in soil

Ingredient	Mobility
n-hexane	LOW (KOC = 149)

# SECTION 13 DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Product / Packaging disposal	<ul> <li>Consult State Land Waste Management Authority for disposal.</li> <li>Discharge contents of damaged aerosol cans at an approved site.</li> <li>Allow small quantities to evaporate.</li> <li>DO NOT incinerate or puncture aerosol cans.</li> <li>Bury residues and emptied aerosol cans at an approved site.</li> </ul>
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### SECTION 14 TRANSPORT INFORMATION

# Labels Required

	PLANMARLE 2
Marine Pollutant	NO
HAZCHEM	2YE

# Land transport (ADG)

UN number	1950	
Packing group	Not Applicable	
UN proper shipping name	AEROSOLS	
Environmental hazard	No relevant data	
Transport hazard class(es)	Class 2.1 Subrisk Not Applicable	
Special precautions for user	Special provisions63 190 277 327 344Limited quantitySee SP 277	

# Air transport (ICAO-IATA / DGR)

UN number	1950			
Packing group	Not Applicable	Not Applicable		
UN proper shipping name	Aerosols, flammable	Aerosols, flammable		
Environmental hazard	No relevant data			
Transport hazard	ICAO/IATA Class	2.1		
class(es)	ICAO / IATA Subrisk	Not Applicable		
. ,	ERG Code	10L		
	Special provisions		A145A167A802	
	Cargo Only Packing Ir	nstructions	203	
	Cargo Only Maximum	Qty / Pack	150 kg	
Special precautions for user	Passenger and Cargo	Packing Instructions	203	
	Passenger and Cargo Maximum Qty / Pack		75 kg	
	Passenger and Cargo	Limited Quantity Packing Instructions	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     2.1       IMDG Subrisk     Not Applicable	
Special precautions for user	EMS NumberF-D , S-USpecial provisions63 190 277 327 344 959Limited QuantitiesSee SP277	

# Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

Source Ingredient	Pollution Category
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IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	n-hexane	Х; Ү
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# SECTION 15 REGULATORY INFORMATION

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

naphtha petroleum, light, hydrotreated(64742-49-0.) is found on the following regulatory lists	"Australia Inventory of Chemical Substances (AICS)","Australia Hazardous Substances Information System - Consolidated Lists"
n-hexane(110-54-3) is found on the following regulatory lists	"Australia Exposure Standards", "Australia Inventory of Chemical Substances (AICS)", "Australia Hazardous Substances Information System - Consolidated Lists"
solvent naphtha petroleum, light aliphatic(64742-89-8.) is found on the following regulatory lists	"Australia Inventory of Chemical Substances (AICS)","International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List Passenger and Cargo Aircraft","Australia Hazardous Substances Information System - Consolidated Lists"
hydrocarbon propellant(68476-85-7.) 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	Y	
Canada - DSL	Y	
China - IECSC	Y	
Europe - EINEC / ELINCS / NLP	Y	
Japan - ENCS	N (naphtha petroleum, light, hydrotreated; solvent naphtha petroleum, light aliphatic)	
Korea - KECI	Y	
New Zealand - NZIoC	Y	
Philippines - PICCS	Y	
USA - TSCA	Y	
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**

#### Other information

# 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.

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