



# SAFETY DATA SHEET

## SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

**Product ID:** EX019, Silver  
 EX035, Chrome Aerosol

**Product Name:** Export Silver & Chrome Aerosol

**Revision Date:** Nov 26, 2019      **Date Printed:** Jan 24, 2020  
**Version:** 1.0      **Supersedes Date:** N.A.

**Manufacturer's Name:** MMP Industrial New Zealand Ltd

**Address:** 21 Highbrook Drive, East Tamaki, Manukau, Auckland New Zealand

**Emergency Phone:** 0411 686 593

**Information Phone Number:** 612 250-4635

**Fax:** 612 250-4636

**Product/Recommended Uses:** General Purpose Enamel

## SECTION 2) HAZARDS IDENTIFICATION

### Classification

Aerosols Category 1  
 Aspiration Hazard - Category 1  
 Chronic aquatic toxicity - Category 2  
 Eye Irritation - Category 2  
 Skin Corrosion - Category 1  
 Specific Target Organ Toxicity -Single Exposure (Narcotic Effects) - Category 3

### Pictograms



### Signal Word

Danger

### Poisons schedule

Not applicable

### Hazardous Statements - Health

H315 - Causes skin irritation  
 H304 - May be fatal if swallowed and enters airways  
 H319 - Causes serious eye irritation  
 H336 - May cause drowsiness or dizziness

### Hazardous Statements - Physical

H222 - Extremely flammable aerosol  
 H229 - Pressurised container: May burst if heated

### Hazardous Statements - Environmental

H411 - Toxic to aquatic life with long lasting effects

### Precautionary Statements - General

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

### Precautionary Statements - Prevention

P241 - Use explosion-proof electrical, ventilating, lighting and all other equipment.

P264 - Wash hands, face and exposed skin thoroughly after handling.

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.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

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

P233 - Keep container tightly closed.

### Precautionary Statements - Response

P312 - Call a POISON CENTER/doctor/physician if you feel unwell.

P321 - Specific treatment- see First Aid on this label.

P378 - Use dry chemical, foam, carbon dioxide to extinguish.

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

P331 - Do NOT induce vomiting.

P391 - Collect spillage.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice/attention.

P330 + P301 + P331 - Rinse mouth. IF SWALLOWED: Do NOT induce vomiting.

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

P363 - Wash contaminated clothing before reuse.

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

### Precautionary Statements - Storage

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P405 - Store locked up.

P403 - Store in a well-ventilated place.

### Precautionary Statements - Disposal

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

**Acute toxicity of less than one percent of the mixture is unknown**

## SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
0000074-98-6	PROPANE	20% - 60%
0000106-97-8	BUTANE	20% - 60%
0000141-78-6	ETHYL ACETATE	10% - 30%
0064742-95-6	AROMATIC HYDROCARBON MIXTURE >C9	1% - 5%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

## SECTION 4) FIRST-AID MEASURES

### Inhalation

Remove source of exposure or move person to fresh air, keep comfortable for breathing and keep warm. Remove contaminated clothing and loosen remaining clothing. If you feel unwell/if concerned: Get medical advice/attention. Keep at rest until fully recovered.

### Eye Contact

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

### Skin Contact

Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. Wash contaminated clothing before re-use or discard. Call a POISON CENTER/doctor if you feel unwell. If blistering occurs, do NOT break blisters. IF exposed or concerned: Get medical advice/attention. For gross contamination, immediately drench with water and remove clothing. For skin burns, cover with a clean, dry dressing until medical help is available. If swelling, redness, blistering, or irritation occurs seek medical assistance.

### Ingestion

Rinse mouth. Give a glass of water to drink. Do NOT induce vomiting. If vomiting occurs naturally, give further water. IF exposed or concerned: Get medical advice/attention. Immediately call a POISON CENTER/doctor. Never give anything by mouth to an unconscious or convulsing person.

### Most Important Symptoms and Effects, Both acute and Delayed

No data available.

### Indication of Any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically.

## SECTION 5) FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Small Fire: Dry chemical, foam, carbon dioxide, water-spray or alcohol-resistant foam. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

Large Fire: Water spray, fog or alcohol-resistant foam.

### Unsuitable Extinguishing Media

Do not use straight stream of water.

### Specific Hazards in Case of Fire

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Extremely flammable aerosol. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Nearby equipment must be earthed. Electrical requirements for work area should be assessed according to AS3000. Vapors may travel to source of ignition and flash back. Cylinders exposed to fire may vent and release toxic gas through pressure relief devices. Containers may explode in fire. Heating can cause expansion or decomposition leading to violent rupture of containers. On burning or decomposing may emit toxic fumes.

### Fire-fighting Procedures

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Cool containers with flooding quantities of water until well after fire is out. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters. Damaged cylinders should be handled only by specialists.

### Special Protective Actions

Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.

## SECTION 6) ACCIDENTAL RELEASE MEASURES

### Emergency Procedure

Ventilate closed spaces before entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Isolate hazard area and keep unauthorized personnel away. Stay uphill and/or upstream. Do not walk through released material.

### Recommended Equipment

Wear chemical protective clothing and positive pressure self-contained breathing apparatus (SCBA).

### Personal Precautions

DO NOT breathe gas, vapor or mist.

DO NOT get on skin, eyes or clothing.

### Environmental Precautions

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Suppress aerosol with water spray jet. Neutralization may be required before discharging sewage into treatment plants.

### Methods and Materials for Containment and Cleaning up

Rinse away with water. For large spills: absorb with vermiculite, dry sand, earth, or similar inert material and deposit in sealed containers for disposal. Increase ventilation to assist with dispersion.

Use clean, non-sparking tools to collect absorbed material. Dispose of contaminated materials according to federal, state and local regulations.

## SECTION 7) HANDLING AND STORAGE

### General

Remove contaminated clothing and protective equipment before entering eating areas.

Wash hands after use.

Do not get in eyes, on skin or on clothing.

Do not breathe vapors, mists or aerosols.

Use good personal hygiene practices.

Eating, drinking and smoking in work areas is prohibited.

All containers must be properly labelled.

Eyewash stations and showers should be available in areas where this material is used and stored.

### Ventilation Requirements

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Report ventilation failures immediately.

### Storage Room Requirements

Store in dry, well-ventilated, cool areas, out of direct sunlight and away from incompatible materials and other sources of heat. Store away from foodstuffs. Eliminate all sources of ignition. Store at temperatures above their respective freezing/melting point, do not expose to temperatures exceeding 50 °C/122 °F. Keep containers securely sealed when not in use, check regularly for leaks. Empty containers retain residue and may be dangerous. Protect containers against banging or other physical damage when storing, transferring, or using them.

## SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

**Eye protection**

Wear safety glasses with side shields.

**Skin Protection**

Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity.

**Respiratory protection**

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to AS/NZS 1715 and AS/NZS 1716 should be followed. Check with respiratory protective equipment suppliers. If risk of inhalation exists wear organic vapor/particulate respirator.

**Appropriate Engineering Controls**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Do NOT enter confined spaces where vapour may have collected. An asphyxiant gas which can lead to the reduction of oxygen concentration by displacement or dilution. The minimum oxygen content in air should be 18% by volume under normal atmospheric pressure.

Chemical Name	ACGIH TWA (mg/m <sup>3</sup> )	ACGIH STEL (ppm)	ACGIH STEL (mg/m <sup>3</sup> )	ACGIH TWA (ppm)	ACGIH Carcinogen	ACGIH TLV Basis	ACGIH Notations	WES TWA (mg/m <sup>3</sup> )
AROMATIC HYDROCARBON MIXTURE >C9	[(L)[N159](L)[N800]]; [5 (I)[N159]5 (I)[N800]];			(L)[N159](L)[N800]	[A2[N159]A2[N800]]; [A4[N159]A4[N800]];	URT irr[N159]URT irr[N800]	[A2[N159]A2[N800]]; [A4[N159]A4[N800]];	
BUTANE		1000 (EX)				CNS impair		1900
ETHYL ACETATE				400		URT & eye irr		720
PROPANE		Simple asphyxiant (D), explosion hazard (EX)				Asphyxia		

Chemical Name	WES STEL (ppm)	WES STEL (mg/m <sup>3</sup> )	WES TWA (ppm)	WES HEALTH	OSHA TWA (ppm)	OSHA TWA (mg/m <sup>3</sup> )	OSHA STEL (ppm)	OSHA STEL (mg/m <sup>3</sup> )
AROMATIC HYDROCARBON MIXTURE >C9					500	2000		
BUTANE			800					
ETHYL ACETATE	400	1440	200		400	1400		
PROPANE					1000	1800		

Chemical Name	OSHA Skin designation	OSHA Carcinogen
AROMATIC HYDROCARBON MIXTURE >C9		
BUTANE		
ETHYL ACETATE		
PROPANE		

(C) - Ceiling limit, (L) - Exposure by all routes should be carefully controlled to levels as low as possible, (R) - Respirable fraction, A4 - Not Classifiable as a Human Carcinogen, BEI - Substances for which there is a Biological Exposure Index or Indices, CNS - Central nervous system, impair - Impairment, irr - Irritation, LRT - Lower respiratory tract, URT - Upper respiratory tract

## SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

Density	12.07 lb/gal
Specific Gravity	0.94
% VOC	87.35%
Density VOC	10.54 lb/gal
% Solids By Weight	11.96%

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Appearance	Coloured liquid
Odor Description	Characteristic of paint thinners
Odor Threshold	Data not available
pH	Data not available
Water Solubility	Insoluble
VOC Part A & B Combined	Data not available
Flash Point Symbol	<
Flash Point	0 °C
Viscosity	Data not available
Lower Explosion Level	Data not available
Vapor Pressure	Data not available
Upper Explosion Level	Data not available
Vapor Density	Data not available
Freezing Point	Data not available
Melting Point	Data not available
Low Boiling Point	Data not available
High Boiling Point	Data not available
Auto Ignition Temp	Data not available
Decomposition Pt	Data not available
Evaporation Rate	Data not available
Coefficient Water/Oil	Data not available

## SECTION 10) STABILITY AND REACTIVITY

### Stability

The product is stable under normal storage conditions.

### Conditions to Avoid

Elevated temperatures and sources of ignition.

### Hazardous Reactions/Polymerization

Will not occur.

### Incompatible materials

Oxidizing agents.

### Hazardous Decomposition Products

Oxides of carbon and nitrogen, smoke and other toxic fumes.

## SECTION 11) TOXICOLOGICAL INFORMATION

**Skin Corrosion/Irritation**

Causes severe skin burns and eye damage

0000141-78-6 ETHYL ACETATE

Exposure to high levels can cause dizziness and lightheadedness.

**Carcinogenicity**

No data available.

**Serious Eye Damage/Irritation**

Causes serious eye irritation

**Respiratory/Skin Sensitization**

Material may be an irritant to mucous membranes and respiratory tract.

**Germ Cell Mutagenicity**

No data available.

**Reproductive Toxicity**

No data available.

**Specific Target Organ Toxicity - Single Exposure**

Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination and impaired judgment.

May cause drowsiness or dizziness

0000141-78-6 ETHYL ACETATE

Can affect the liver and kidneys.

**Specific Target Organ Toxicity - Repeated Exposure**

May cause damage to organs.

**Aspiration Hazard**

Small amounts of liquid aspirated into the respiratory system during ingestion or vomiting may cause bronchopneumonia or pulmonary oedema.

May be fatal if swallowed and enters airways

**Acute Toxicity**

Prolonged exposure to inhalation of high concentration can lead to unconsciousness.

Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

**Likely Routes of Exposure**

Inhalation, Ingestion, Skin contact, Eye contact

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

0000106-97-8 BUTANE

The substance can be absorbed into the body by inhalation.

**Chronic Exposure**

No data available

**Potential Health Effects - Miscellaneous**

0000141-78-6 ETHYL ACETATE

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: eyes, respiratory system, skin. Tests in laboratory animals have shown effects on any of the following organs/systems: blood, kidneys, liver.

0064742-95-6 AROMATIC HYDROCARBON MIXTURE >C9

The following medical conditions may be aggravated by exposure: skin disorders. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

0000106-97-8 BUTANE

LC50 (mouse): 202000 ppm (481000 mg/m<sup>3</sup>) (4-hour exposure); cited as 680 mg/L (2-hour exposure) (9)

LC50 (rat): 276000 ppm (658000 mg/m<sup>3</sup>) (4-hour exposure); cited as 658 mg/L (4-hour exposure) (9)

0000141-78-6 ETHYL ACETATE



LC50 (rat): 19600 ppm (4-hour exposure); cited as 16000 ppm (6-hour exposure) (10)  
LC50 (mouse): 10600 ppm (38100 mg/m3) (4-hour exposure); cited as 44000 mg/m3 (3-hour exposure) (8)  
LD50 (oral, rat): 10200 mg/kg (cited as 11.3 mL/kg) (7); 5600 mg/kg (5,13)  
LD50 (oral, mouse): 4100 mg/kg (11)  
LD50 (oral, rabbit): 4900 mg/kg (9)  
LD50 (oral, guinea pig): 5500 mg/kg (11)  
LD50 (dermal, rabbit): Greater than 18000 mg/kg (cited as 20 mL/kg) (7)

## SECTION 12) ECOLOGICAL INFORMATION

### Toxicity

Toxic to aquatic life with long lasting effects

### Persistence and Degradability

0000106-97-8 BUTANE

Readily biodegradable.

### Bio-accumulative Potential

No data available.

### Mobility in Soil

No data available.

### Other Adverse Effects

No data available.

### Results of the PBT and vPvB assessment

0000106-97-8 BUTANE

Readily biodegradable.

This substance is not PBT/vPvB

0000141-78-6 ETHYL ACETATE

The substance is not PBT / vPvB

## SECTION 13) DISPOSAL CONSIDERATIONS

### Waste Disposal

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, state and local laws. Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes.

## SECTION 14) TRANSPORT INFORMATION

**ADG Information**

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

UN number: 1950

Hazard class: 2.1

Proper shipping name: AEROSOLS

Packaging group: None

Hazchem Code: 2YE

**IMDG Information**

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea

This material is classified as a marine Pollutant (P) according to the International Maritime Dangerous Goods Code.

UN number: 1950

Hazard class: 2.1

Packaging group: None

Proper shipping name: AEROSOLS

**IATA Information**

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN number: 1950

Hazard class: 2.1

Packaging group: None

Proper shipping name: AEROSOLS

## SECTION 15) REGULATORY INFORMATION

**HSNO Group Standard: Aerosols Flammable Group Standard 2006: HSR002515**

- 2.1.2A – Aerosol
- 6.1E – Aspiration Hazard
- 6.4A – Eye Irritation
- 6.5B – Skin Sensitization
- 9.1B - Chronic Aquatic Toxicity

CAS	Chemical Name	% By Weight	Regulation List
0000074-98-6	PROPANE	20% - 60%	DSL, VOC, TSCA
0000106-97-8	BUTANE	20% - 60%	DSL, VOC, TSCA
0000141-78-6	ETHYL ACETATE	10% - 30%	DSL, VOC, TSCA
0064742-95-6	AROMATIC HYDROCARBON MIXTURE >C9	1% - 5%	DSL, VOC, IARC Carcinogen, TSCA

**This material/constituent(s) is covered by the following requirements:**

- All constituents of this material are listed on the *Australian Inventory of Chemical Substances (AICS)*.

**SECTION 16) OTHER INFORMATION INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS****Glossary**

ACGIH- American Conference of Governmental Industrial Hygienists; ADG- Australian Dangerous Goods Code; CAS- Chemical Abstract Service; DSL- Domestic Substances List; LC- Lethal Concentration; LD- Lethal Dose; OSHA- Occupational Safety and Health Administration; SCBA- Self Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA- Time Weighted Value; VOC- Volatile Organic Compounds; WES- Workplace Exposure Standards

**Version 1.0:**

Revision Date: Jan 24, 2020

First Edition.

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