

## SAFETY DATA SHEET

### Section 1. Identification of the material and the supplier

Product: **Esprit Metal Injector Pack – IPA Spray**  
 Product Code: ATO16Q  
 Product Use: Cleaning agent  
 Restriction of use: Refer to Section 15

New Zealand Supplier: **Glasscorp Limited**  
 Address: **124 Bush Road  
 Albany  
 Auckland  
 New Zealand**

Telephone: 09 415 6338  
 Fax Number: 09 415 6339  
 Website: [www.glasscorp.co.nz](http://www.glasscorp.co.nz)

**Emergency Telephone: 09 415 6338 or 0800 764 766 (National Poison Line)**

Glasscorp date of issue: 20 May 2021

### Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code and Group Standard: Cleaning Products (Flammable) – HSR002528

Pictograms:



Signal Word: **DANGER**

GHS Classification and Category	Hazard Code	Hazard Statement
Flammable Liquids Cat. 2	H225	Highly flammable liquid and vapour.
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Narcotic effects	H336	May cause drowsiness or dizziness.

Prevention Code	Prevention Statement
P103	Read label before use.
P210	Keep away from heat, sparks, open flames or hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground, bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating, and lighting.
P242	Use only non-sparking tools.

P243	Take precautionary measures against static discharge.
P261	Avoid breathing fumes, vapours or spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective clothing as detailed in Section 8.

Response code	Response Statement
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P303 + P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
P370 + P378	In case of fire: Use alcohol-resistant foam, carbon dioxide, dry powder or water fog for extinction.

Storage Code	Storage Statement
P405	Store locked up.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.

Disposal Code	Disposal Statement
P501	Refer to Section 13.

### Section 3. Composition / Information on Ingredients

Hazardous Ingredients	CAS NUMBER	WEIGHT
Isopropyl Alcohol	67-63-0	Proprietary

### Section 4. First Aid Measures

#### Routes of Exposure:

If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
If on Skin	Take off contaminated clothing. Wash skin with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention.
If Swallowed	Rinse mouth thoroughly. Never give anything by mouth to a victim who is unconscious or is having convulsions. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice if needed.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

#### Most important symptoms and effects, both acute and delayed

Symptoms :

Inhalation:	A single exposure may cause the following adverse effects: Headache. Prolonged or repeated exposure
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may cause the following adverse effects: Nausea, vomiting. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Narcotic effect.

Swallowed:	Gastrointestinal symptoms, including upset stomach. May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication.
Skin Contact:	Prolonged contact may cause dryness of the skin.
Eye Contact:	Causes serious eye irritation.
Treatment:	Treat symptomatically.

## Section 5. Fire Fighting Measures

<b>Hazard Type</b>	Containers can burst violently or explode when heated, due to excessive pressure build-up. Flammable liquid and vapour. Vapours may be ignited by a spark, a hot surface or an ember. Vapours may form explosive mixtures with air. Fire-water run-off in sewers may create fire or explosion hazard.
<b>Hazards from products</b>	Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. Oxides of carbon.
<b>Suitable Extinguishing media</b>	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire. Do not use water jet as an extinguisher, as this will spread the fire.
<b>Precautions for firefighters and special protective clothing</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents. Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
<b>HAZCHEM CODE</b>	<b>2YE</b>

## Section 6. Accidental Release Measures

### Equipment and emergency procedures

No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Evacuate area. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Promptly remove any clothing that becomes contaminated. Avoid inhalation of vapours and spray/mists. Use suitable respiratory protection if ventilation is inadequate.

### Environmental precautions

Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Use only non-sparking tools. Use explosion-proof electrical equipment. Do not allow material to enter confined spaces, due to the risk of explosion. Approach the spillage from upwind.

**Small Spillages:** If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container.

**Large Spillages:** If leakage cannot be stopped, evacuate area. Flush spilled material into an effluent treatment plant, or proceed as follows. Contain and absorb spillage with sand, earth or other non-combustible material. Place waste in labelled, sealed containers. Clean contaminated objects and areas thoroughly, observing environmental regulations. The contaminated absorbent may pose the same hazard as the spilled material. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## Section 7. Handling and Storage

### Precautions for safe handling:

- Read label before use.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Keep container tightly closed.
- Ground, bond container and receiving equipment.
- Use explosion-proof electrical, ventilating, and lighting.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Avoid breathing fumes, vapours or spray.
- Wash hands thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Handle all packages and containers carefully to minimise spills.
- Wear protective clothing as detailed in Section 8.
- Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.
- Do not eat, drink or smoke when using this product.

### Precautions for safe storage:

- Store away from incompatible materials listed in Section 10.
- Keep away from food, drink and animal feeding stuffs.
- Keep out of reach of children.
- Store locked up.
- Store in a cool, well-ventilated place.
- Keep container tightly closed.
- Keep only in the original container.
- Keep containers upright.
- Protect containers from damage.
- Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.

## Section 8 Exposure Controls / Personal Protection

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Isopropyl alcohol [67-63-0]	400	983	500	1,230

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2019 11TH EDITION

DNEL Workers - Inhalation; Long term systemic effects: 500 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 888 mg/kg  
 General population - Inhalation; Long term systemic effects: 89mg/m<sup>3</sup>  
 General population - Dermal; Long term systemic effects: 319 mg/kg  
 General population - Oral; Long term systemic effects: 26 mg/kg/day

PNEC - Fresh water; 140.9 mg/l  
 - Marine water; 140.9 mg/l  
 - STP; 2251 mg/l  
 - Sediment; 552 (freshwater) mg/kg  
 - Sediment; 552 (marine water) mg/kg  
 - Soil; 28 mg/kg

### Engineering Controls:

Ensure adequate ventilation.

### Personal Protection Equipment



<b>Eyes</b>	Safety glasses with side protection shield.
<b>Hands and Skin</b>	Chemical resistant gloves complying with European Standard EN374 Use Short-term hand contact Appropriate Material nitrile Material thickness $\geq 0.35\text{mm}$ Breakthrough time $>480\text{min}$ Clothing as usual in the chemical industry.
<b>Respiratory</b>	If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.
<b>General</b>	Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

## Section 9 Physical and Chemical Properties

<b>Appearance</b>	Colourless liquid
<b>Odour</b>	Characteristic, Alcohol
<b>Odour Threshold</b>	Not available
<b>pH</b>	pH (concentrated solution): Neutral (approx. 7)
<b>Boiling Point</b>	82°C @ 1013 hPa
<b>Melting Point</b>	- 89°C
<b>Freezing Point</b>	Not available
<b>Flash Point</b>	11.7°C
<b>Flammability</b>	Not flammable
<b>Upper and Lower Explosive Limits</b>	2% - 13%
<b>Vapour Pressure</b>	44 hPa @ 20°C
<b>Vapour Density</b>	Not available
<b>Relative Density</b>	0.786 @ 20°C
<b>Specific Gravity</b>	Not available
<b>Soluble in water</b>	Miscible with water.
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	455.6°C

<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	2.038 mPa s @ 25°C
<b>Percent Volatile</b>	Not available
<b>Molecular Weight</b>	60.1
<b>Explosive properties</b>	Formation of explosive vapour / air mixtures. More sensitive to shock than m-dinitrobenzene: No. More sensitive to friction than m-dinitrobenzene: No.

## Section 10. Stability and Reactivity

<b>Stability of Substance</b>	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
<b>Reactivity</b>	The following materials may react with the product: Oxidising agents. Acids.
<b>Possibility of hazardous reactions</b>	The following materials may react strongly with the product: Oxidising agents. May generate heat. In use may form flammable/explosive vapour-air mixture.
<b>Conditions to Avoid</b>	Avoid heat, flames and other sources of ignition. Containers can burst violently or explode when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented. Do not pressurise, cut, weld, drill, grind or otherwise expose containers to heat or sources of ignition. Avoid freezing.
<b>Incompatible Materials</b>	Oxidising materials. Acids - oxidising. Acids. Keep away from flammable and combustible materials.
<b>Hazardous Decomposition Products</b>	Does not decompose when used and stored as recommended.

## Section 11 Toxicological Information

### Acute Effects:

<b>Swallowed</b>	Not applicable. ATE (oral) LD50 = 5840mg/kg (rat)
<b>Dermal</b>	Not applicable. ATE (dermal) LD50 = 12900 mg/kg (rabbit)
<b>Inhalation</b>	Not applicable. ATE (inhalation-vapor) LC50 = 10 000 mg/l (rat)
<b>Eye</b>	Causes eye irritation.
<b>Skin</b>	Not applicable

### Chronic Effects:

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE (Narcotic)</b>	May cause drowsiness or dizziness.
<b>STOT/RE</b>	Not applicable.
<b>Target organs</b>	Central nervous system.

## Section 12. Ecotoxicological Information

Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

<b>Persistence and degradability</b>	The substance is readily biodegradable.
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	Water - Degradation (%) 53: 5 days
<b>Bioaccumulation</b>	No data available on bioaccumulation
<b>Biological oxygen demand</b>	1.19 g O <sub>2</sub> /g substance
<b>Chemical oxygen demand</b>	2.23 g O <sub>2</sub> /g substance
<b>Mobility in Soil</b>	The product is water-soluble and may spread in water systems. The product contains volatile substances which may spread in the atmosphere.
<b>Other adverse effects</b>	No data available

**Toxicity:** Based on available data the classification criteria are not met.

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 9640 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates LC<sub>50</sub>, 24 hours: >10,000 mg/l, Daphnia magna

Chronic toxicity - fish early life stage Scientifically unjustified.

### Section 13. Disposal Considerations

#### Disposal Method:

Spent media that has removed toxic chemicals should be examined for specific hazards. Spilled product may be recovered for use if it has not come in contact with liquids or been exposed to significant amounts of gaseous contaminants. Dispose of according to Local Regulations.

Ensure any container holding waste product or contaminated spill media is labelled "Hazardous Waste - Flammable" and that the label also has the appropriate Pictograms from Section 2, waste type identifier, and the business name, address, and phone number.

**Precautions or methods to avoid:** None known.

### Section 14 Transport Information

**This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012**



#### Road, Rail, Sea and Air Transport

<b>UN No</b>	1219
<b>Class - Primary</b>	3
<b>Packing Group</b>	II
<b>Proper Shipping Name</b>	ISOPROPANOL (ISOPROPYL ALCOHOL)
<b>Marine Pollutant</b>	No
<b>Special Provisions</b>	If the product's individual container is below 1L, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

### Section 15 Regulatory Information

EPA Approval Code: Cleaning Products (Flammable) – HSR002528

HSW (HS) Regulations 2017	Trigger Quantity
Certified Handlers	Not required
Location Certificate	100L (>5L), 250L(<5L), 50L open
Signage Trigger Quantities (Schedule 3)	250L (
Emergency Response Plan (Schedule 5)	1000L
Secondary Containment (Schedule 5)	1000L
Fire Extinguishers	250L = 2x required



Tracking (Schedule 26)	Not required
Restriction of use	Only for intended use.

## Section 16 Other Information

### Glossary

Cat.	Category
AWC	Aggregate water capacity.
EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

### References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013)
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

### Disclaimer

This document has been issued by Glasscorp Limited and serves as the product Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to Glasscorp Limited by the Manufacturer and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While Glasscorp Limited have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Glasscorp Limited accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS. The information herein is given in good faith, but no warranty, express or implied is made. Please contact Glasscorp Limited, if further information is required.

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