

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **METHYLATED SPIRITS - CLEAR**
 Product Code: MS20C
 Product Use: Industrial Solvent
 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

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

Glasscorp date of issue: 14 January 2021

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: Solvents (Flammable) – HSR002650

Pictograms:



Signal Word: **DANGER**

HSNO Classes	Hazard Code	Hazard Statement	GHS Category
3.1B	H225	Highly flammable liquid and vapour.	Flam. Liq. 2
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
6.8B	H361	Suspected of damaging fertility or the unborn child.	Repr. 2
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	STOT RE 2

Prevention Code	Prevention Statement
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
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.
P260	Do not breathe fumes, mist, vapours and spray.
P264	Wash hands thoroughly after handling.
P280	Wear protective clothing as detailed in Section 8.
P281	Use personal protective equipment as required.

Response code	Response Statement
P314	Get medical advice/attention 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.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P370 + P378	In case of fire: Use alcohol resistant foam, water spray or fog. for extinction.

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

Disposal Code	Disposal Statement
P501	Triple rinse and dispose of according to local regulations

Section 3. Composition / Information on Ingredients

Hazardous Ingredients	Cas Number	Weight
Ethyl alcohol	64-17-5	>90%
Methyl alcohol	67-56-1	<2%
Water	7732-18-5	To bal

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If on Skin	Wash skin with plenty of soap and water. Seek medical attention if any irritation occurs.
If Swallowed	If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Immediately call Poisons Centre or Doctor.
If Inhaled	Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Most important symptoms and effects, both acute and delayed

Symptoms:	Refer to Section 11 for full details.
Swallowed:	Not applicable
Inhaled:	Not applicable.
Eyes:	Causes serious eye irritation.
Skin:	Not applicable.
Chronic:	Suspected of damaging fertility or the unborn child. Causes damage to organs through repeated or prolonged exposure.

Advice to Doctors: Treat according to symptoms. Avoid gastric lavage: risk of aspiration of product to the lungs with the potential to cause chemical pneumonitis.

Section 5.	Fire Fighting Measures
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Hazard Type	Highly flammable liquid and vapour. Vapours may form explosive mixtures with air.
Hazards from combustion products	Carbon dioxide, carbon monoxide, hydrocarbons.
Suitable Extinguishing media	Alcohol resistant foam, water spray or fog. On small fires may use dry chemical powder, carbon dioxide, sand or earth. Keep adjacent containers cool by spraying with water. Do not use water jet.
Precautions for firefighters and special protective clothing	Full protective clothing and self-contained breathing apparatus.
HAZCHEM CODE	2YE

Section 6.	Accidental Release Measures
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Equipment and emergency procedures

Highly flammable liquid and vapour. Avoid contact with spilt material. Prevent any vapours from building up in confined areas. Vapours heavier than air and can spread across the ground. Wear PPE as detailed in Section 8. Evacuate all non-essential personnel. Remove sources of ignition.

Environmental precautions

Prevent material from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

Methods and materials for containment and cleaning up

Use absorbent (soil, sand or other inert material). Use a spark-free shovel. Collect and seal in properly labelled containers or drums for disposal. Dispose of waste according to the applicable local and national regulations as detailed in Section 13.

Section 7.	Handling and Storage
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Precautions for safe handling:

- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- 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.

- Do not breathe fumes, mist, vapours and spray.
- Wash hands thoroughly after handling.
- Wear protective clothing as detailed in Section 8.
- Use personal protective equipment as required.

Precautions for safe storage:

- Store locked up.
- Store in a cool, dry, well-ventilated place and out of direct sunlight.
- Do not pressurise, cut, heat or weld containers - residual vapours are highly flammable.
- This product will fuel a fire in progress.
- Store away from incompatible materials such as Natural, neoprene or nitrile rubbers, EPDM, polystyrene. Refer to Section 10 for full list.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA ppm	mg/m ³	STEL ppm	mg/m ³
Ethanol (Ethyl alcohol) [64-17-5]	1,000	1,880	-	-
Methanol [67-56-1]	200	262	250	328

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

Engineering Controls:

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment.

Personal Protection Equipment



Eyes	Always use safety glasses or a face shield when handling this product.
Hands and Skin	Always wear long sleeves and long trousers or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves (e.g. PVC) be worn when handling this product.
Respiratory	Where concentrations in air may exceed the limits described in the National Exposure Standards, it is recommended to use a half-face or full-face filter mask to protect from overexposure by inhalation. Recommended Filter Type: Type A filter material (organic vapour) Refer to AS/NZS 1715: Selection, Use and Maintenance of Respiratory Equipment and AS/NZS 1716: Respiratory Protective Devices for further details on the use of respiratory protective equipment.

Section 9 Physical and Chemical Properties

Appearance	Clear Colourless Liquid
Odour	Not available
Odour Threshold	Not available
pH	Not available
Boiling Point	78°C

Melting Point	Not available
Freezing Point	Not available
Flash Point	13 °C
Flammability	Highly Flammable liquid and vapour.
Upper and Lower Explosive Limits	3.5 – 19.0%
Vapour Pressure	44 mmHg
Vapour Density @ 20°C	1.59 kPa
Relative Density	Not available
Density @ 15°C	0.79 g/mL
Soluble in water	Soluble
Partition Coefficient:	Not available
Auto-ignition Temperature	392°C
Decomposition Temperature	Not available
Kinematic Viscosity	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions:	None known.
Conditions to Avoid	Sources of heat and ignition, open flames.
Incompatible Materials	Strong oxidizers, acids, strong alkalis, heat and sources of ignition. Avoid: Contact with strong oxidising agents (e.g. hypochlorites, peroxides), acids (e.g. sulphuric acid), strong alkalis (e.g. hydroxides).
Hazardous Decomposition Products	Decomposition products on burning (carbon oxides, hydrocarbons).

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not triggered however ingestion of large amounts will result in central nervous system effects with symptoms such as headaches, dizziness, hallucinations, euphoria, excitation, drowsiness, blurred vision, fatigue, tremors, convulsions, vomiting and possible loss of consciousness. Severe acute intoxication effects may include hypoglycaemia, hypothermia, extensor rigidity, decreased blood pressure, vomiting blood and blood discharges. Aspiration to the lungs may cause chemical pneumonitis.
Dermal	Not applicable.
Inhalation	Not triggered however, may be moderately irritating to respiratory system. Inhalation of high concentrations may result in nervous system depression which can lead to dizziness, headaches, nausea and vomiting. Inhalation or high or prolonged exposure may cause adverse central nervous system effects; see symptoms described under Ingestion.
Eye	The liquid and vapour/mist is moderately irritating to eyes and may cause pain, redness, irritation, tearing.
Skin	Mildly irritating to the skin. Prolonged or repeated exposure may result in dryness and cracking of skin, itching or swelling. A small proportion of the population may develop an allergic skin reaction.

Chronic Effects:

Carcinogenicity	Not applicable.
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Reproductive Toxicity	Suspected of damaging fertility or the unborn child.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	May cause damage to organs through repeated or prolonged exposure.
Chronic Effects	Chronic intoxication from ingestion of the product, or repeated inhalation, may cause degenerative changes in liver, kidneys, hair, gastrointestinal tract and heart muscle.
Other	Persons with pre-existing liver impairment and respiratory disorders may be at an increased risk from exposure. The effects of this product in combination with toluene are potentiated (greatly increased). This means that the effects suffered by ingestion or inhalation will be increase or experienced more quickly.

Individual component information as per EPA CCID (NZ):

Acute Toxicity:

Chemical Name	Oral – LD50	Dermal – LD50	Inhalation – LC50
Methanol	300 mg/kg (human)	-	52 mg/l (4hr)(monkey)

Section 12. Ecotoxicological Information

Product is not identified as being ecotoxic in the aquatic environment. However, if discharged in quantity may have biocidal effect.

Persistence and degradability	Product is readily biodegradable - volatises to air.
Bioaccumulation	No data available
Mobility in Soil	Product is soluble in water.
Other adverse effects	No data available

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

UN No	1170
Class - Primary	3

Packing Group	II
Proper Shipping Name	ETHANOL SOLUTION
Marine Pollutant	No
Special Provisions	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: Solvents (Flammable)– HSR002650

HSNO Classification: 3.1B, 6.4A, 6.8B, 6.9B

HSW (HS) Regulations 2017	Trigger Quantity
Certified Handlers	Not required
Location Certificate	100L(>5L), 250L(<5L), 50L open (3.1B)
Signage Trigger Quantities (Schedule 3)	250L (3.1B)
Emergency Response Plan (Schedule 5)	1000L(3.1B)
Secondary Containment (Schedule 5)	1000L(3.1B)
Tracking (Schedule 26)	Not required
Fire Extinguishers	250L = 2 x required
Restriction of use	Only for intended use.

Section 16 Other Information

Glossary

AWC	Aggregate water capacity.
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	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

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