



Section 1: Identification of the Material and Supplier

Product Name: Clean Glass

Other Names: Aqueous solution of solvents and surfactants.

Proper shipping name (ADG Code): None assigned.

Recommended use: As a glass surface cleaner for windows, mirrors and glass doors.

Supplier: Hunters Products (TAS) Pty. Ltd.,
A.C.N. 004 601 263

HEAD OFFICE

60 Gleadow Street,
INVERMAY TAS 7248
Tel: 03 6331 4755
Fax: 03 6334 1065

HOBART OFFICE

105 Albert Road,
MOONAH TAS 7009
Tel: 03 6228 7955
Fax: 03 6228 7988

BURNIE OFFICE

22 Pearl Street,
WIVENHOE TAS 7320
Tel: 03 6431 9627
Fax: 03 6432 2083

Emergency Phone Numbers:

Transport/Fire Emergency: 000 (Emergency services)
Medical Emergency: 131126 (Poisons Information Centre)

Section 2: Hazards Identification

Not classified as hazardous according to criteria of Worksafe Australia.

Non-dangerous goods.

Risk Phrases: None assigned.

Safety Phrases: None assigned.

Section 3: Composition/Information on Ingredients

Ingredients:

| | | |
|----------------------------------------------|-------------|-----------|
| Ethanol | [64-17-5] | 10 - 30 % |
| Surfactant | | < 10 % |
| Other ingredients deemed not to be hazardous | | < 10 % |
| Water | [7732-18-5] | to 100 % |

Section 4: First Aid Measures

For advice, contact a Poisons Information Centre (Phone 131126) or a doctor.

Swallowed: If swallowed, do NOT induce vomiting.

Skin: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Eyes: If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.

Inhaled: Remove from exposure, rest and keep warm. Seek medical advice.

First Aid facilities:

Recommended: Eye wash. Hand wash basin.

Advice to Doctor:

Product is a dilute solution of a solvent and a surfactant in water/methylated spirit solution. If swallowed, vomiting should not have been induced because of risk of aspiration of froth into the lungs. Contact Poisons Information Centre.

Aggravated medical conditions:

None found.

Section 5: Fire Fighting Measures

HAZCHEM Code: None assigned.

Evacuate: No.

Extinguishant: Water.

Risk of violent reaction or explosion: No.
In confined spaces, vapours may become concentrated enough to exhibit a momentary flash, but the liquid will not burn.

Products of combustion: Water vapour, oxides of carbon.

Protective Equipment: As for other materials involved.

Section 6: Accidental Release Measures

Emergency Procedures:

Dilute.
Increase ventilation.

For large spills:

Contain spillages with sand or earth. Transfer both liquid and solids to suitable container(s). Treat residues as for small spills.

For small spills:

If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise, absorb on inert absorbent and transfer to suitable container. Wash site of spillage thoroughly with water. Ventilate area to dispel any residual vapours.

Section 7: Handling and Storage

Precautions for safe handling:

Avoid contact with skin and eyes.
Avoid breathing concentrated vapours.

Conditions for safe storage:

Store in a cool, well ventilated place, out of reach of children. Large quantities should be stored in a bunded area. Store in original container. Keep container tightly closed and out of direct sunlight. Prevent vapours from collecting in enclosed or low lying places. Keep away from oxidising agents. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.

Incompatibles:

Oxidising agents.

Section 8: Exposure Controls/Personal Protection

National Exposure Standards:

| | | | |
|-------------------|---------|------------------------------------------------------------------------|-----------|
| ES-TWA: | Ethanol | 1,000 ppm, 1,880 mg/m ³ | |
| ES-STEL: | Ethanol | None assigned by NOHSC, but see: 1,250 ppm, 2,400 mg/m ³ | [Finland] |
| ES-PEAK: | | None assigned. | |
| Notations: | | None assigned. | |

Biological Limit Values: No data found.

Engineering Controls:

Ensure adequate ventilation (same as outdoors) when using.
If handling industrial quantities, or if vapour risk exists, consider local mechanical exhaust/extraction to keep airborne contamination as low as possible and at least below the TLV.

Personal Protective Equipment:

Avoid contact with skin and eyes. Avoid breathing concentrated vapours or aerosols. Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard:-

Normal Use:

Eye/face protection
Gloves, rubber or plastic.

Industrial Quantities:

Face shield or safety glasses
Gloves, rubber or plastic
Plastic apron, sleeves and boots
Impervious overalls.

Section 9: Physical and Chemical Properties

| | |
|-----------------------------------|--------------------------------------------|
| Appearance: | Clear, pale blue, mobile, frothing liquid. |
| Odour: | Slight smell of methylated spirit. |
| pH: | About neutral. |
| Vapour Pressure: | No data. |
| Vapour Density: | Solvent vapours may be heavier than air. |
| Boiling Point: | From about 78 °C |
| Melting Point: | No data. |
| Volatiles: | > 95 % |
| Volatile Organic Compounds (VOC): | 10 % |
| Evaporation Rate: | No data. |
| Solubilities: | Miscible with water in all proportions. |
| Specific Gravity/Density: | About 1 g/mL @ 20 °C |
| Flash Point: | About 66 °C |
| Flammable Limits: | 3.3 - 19.0 % [ethanol] |
| Dust Explosion: | Not applicable. |
| Auto-ignition Temperature: | 363 °C [ethanol] |

Other Information:

Dilute, aqueous solution. May react with strong oxidising agents.
Slippery when spilled.

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Incompatible materials.

Incompatible Materials: Oxidising agents.

Hazardous Decomposition Products: Oxides of carbon.

Hazardous Reactions: None known.

Section 11: Toxicological Information

Health Effects:

No data available for the mixture. Information presented relates to individual ingredients.

| | | |
|-------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute: | Swallowed: | Bitter taste. Likely to cause gastric upset, nausea, vomiting and diarrhoea. May cause symptoms of alcohol intoxication. An aspiration risk. |
| | Skin: | Will have a degreasing effect on the skin, which may lead to irritation. |
| | Eyes: | May be irritating to eyes. Splashes into the eyes may cause redness, itching and a burning pain. |
| | Inhaled: | Inhalation of concentrated vapours or aerosols may cause cough, drowsiness, headache and fatigue. Ethanol vapours may be irritating to the nose and eyes at concentrations well below the TLV. Aspiration of froth into the lungs during swallowing or vomiting may cause irritation of lung tissues and pulmonary oedema (fluid build-up in the lungs). Onset of symptoms may be delayed. |
| Chronic: | | Repeated skin contact may lead to skin irritation and dermatitic effects. Repeated exposure to ethanol vapours may lead to headaches and symptoms of central nervous system depression. Ingestion of ethanol during pregnancy has been linked with adverse reproductive effects, including birth defects, in experimental animals and humans. (1)(2) |
| LD₅₀: | Ethanol | 7,060 mg/kg oral, rat. |
| LC₅₀: | Ethanol | 20,000 ppm/10 hours, rat. |
| LDLo: | Ethanol | 1,400 mg/kg oral, human. 2,000 mg/kg oral, child. |
| TDLo: | Ethanol | 700 mg/kg oral, man. |

Section 12: Ecological Information

| | |
|---------------------------------------|--------------------------------------------------------------------------------|
| Ecotoxicity: | May be harmful to aquatic organisms. |
| Persistence and degradability: | The surfactant used in this product is reported to be partially biodegradable. |

Mobility: Readily transported by water.

Environmental Fate: No data.

Bioaccumulative potential: No data.

Other adverse environmental effects: Contains surfactant. May be harmful to aquatic organisms, including fish.

Section 13: Disposal Considerations

The generator of any wastes from this product is responsible for its proper classification, transport and disposal.

Consult appropriate local and State regulations.

Disposal methods and containers:
Avoid disposal to natural waters.

Special precautions for landfill or incineration:
Unsuitable for incineration.

Section 14: Transport Information

UN Number: None assigned.

UN Proper shipping name: None assigned.

Class and subsidiary risk: None assigned.

Packaging group: None assigned.

Special precautions for user: None assigned.

HAZCHEM Code: None assigned.

Material for export: Not regulated.

Section 15: Regulatory Information

Poisons (SUSDP): Not a scheduled poison.

Dangerous Goods: No.

| | | | | |
|--------------------|------------------|-------------|------------|--------------|
| Carcinogen: | Australia | IARC | NTP | RTECS |
| | No. | No. | No. | No. |

Agricultural and Veterinary Chemicals Act: Not applicable.

Australian Inventory of Chemical Substances (AICS): Listed.

Other National/International Regulations: No data.

Section 16: Other information

Date of MSDS update: April 2007
Complete review and re-write of all sections.

Abbreviations:

NOHSC - National Occupational Health and Safety Commission.
ACGIH - American Conference of Governmental Industrial Hygienists.
MAK - Maximum workplace concentration - Germany,
(*maximale Arbeitsplatzkonzentration*)
IARC - International Agency for Research on Cancer (France).
NPT - National Toxicology Program (USA).
RTECS - Registry of Toxic Effects of Chemical Substances.

Literature references:

- (1) *American Journal of Diseases of Children.*
(AMA, 535 N. Dearborn St., Chicago, IL 60610)
v.129, p.1075, 1975
- (2) *American Journal of Obstetrics and Gynecology.*
(C.V. Mosby Co., 11830 Westline Industrial Dr.,
St. Louis, MO 63146) v.145, p.251, 1983

Other Available Sources of Data:

*National Code of Practice for the Preparation of Material Safety Data
Sheets 2nd Edition [2011(2003)] - NOHSC.*
Australian Dangerous Goods Code.
Standard for the Uniform Scheduling of Drugs and Poisons - AHMAC.
*Exposure Standards for Atmospheric Contaminants in the
Occupational Environment [1003]- NOHSC.*
List of Designated Hazardous Substances [10005] - NOHSC.
Merck Index - Merck Inc.
Sax's Dangerous Properties of Industrial Materials - Lewis.
Handbook of Toxic and Hazardous Chemicals and Carcinogens - Sittig.
Handbook of Reactive Chemical Hazards - Bretherick.
Hawley's Condensed Chemical Dictionary - Wiley Interscience.
AUSREG's Chemical Data Package for PCs - AUSREG Consultancy.