

1) IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY UNDERTAKING

Product Name S-A-S Glass Cleaner
Product No SAS16 - 500 ml Aerosol
Supplier Van-Line Ltd, Gelderd Road, Leeds, LS12 6NA.
Telephone +44 (0)113 213 4300
Fax +44 (0)113 213 4319
Email contact@van-line.co.uk

2) HAZARDS IDENTIFICATION

Extremely flammable. Vapours may cause drowsiness and dizziness. Irritating to eyes.
Xi;R36. F+;R12. R67.

CLASSIFICATION (1999/45)

3) COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content %	Classification (67/548/EEC)
AMMONIA ...%	215-647-6	1336-21-6	< 1%	C;R34 N;R50
BUTANE	203-448-7	106-97-8	1-5%	F+;R12
ISOBUTANE	200-857-2	75-28-5	1-5%	F+;R12
PROPAN-2-OL	200-661-7	67-63-0	30-60%	F;R11 Xi;R36 R67
PROPANE	200-827-9	74-98-6	1-5%	F+;R12

4) FIRST AID MEASURES - SYMPTOMS

General information Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
Inhalation Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.
Ingestion DO NOT INDUCE VOMITING! Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Get medical attention if any discomfort continues.
Skin contact Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.
Eye contact Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5) FIRE-FIGHTING MEASURES

Extinguishing media Use: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.
Special fire fighting procedures Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours.
Unusual fire & explosion hazards Aerosol cans may explode in a fire.

6) ACCIDENTAL RELEASE MEASURES

Spill clean up methods Wear necessary protective equipment. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Let evaporate. Keep out of confined spaces because of explosion risk. If leakage cannot be stopped, evacuate area.

7) HANDLING AND STORAGE

Handling precautions Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.
Storage precautions Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C.

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	STD	TWA - 8 Hrs	STEL - 15 Min	Notes
BUTANE	WEL	600 ppm	1450 mg/m ³	750 ppm 1810 mg/m ³
ISOBUTANE	WEL	800 ppm		800 ppm
PROPAN-2-OL	WEL	400 ppm	999 mg/m ³	500 ppm 1250 mg/m ³
PROPANE		Asphyxiating	Asphyxiating	Asphyxiating

WEL = Workplace Exposure Limit.

Ingredient comments

OES = Occupational Exposure Standard. MEL = Maximum Exposure Limit.

Protective equipment



Engineering measures

Respiratory protection Provide adequate general and local exhaust ventilation.
No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. Use chemical cartridge protection with appropriate cartridge.

Hand protection

Use protective gloves.

Eye protection

Use approved safety goggles or face shield.

Other protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

9) PHYSICAL AND CHEMICAL PROPERTIES

Appearance Aerosol.
Colour Typical.
Odour Characteristic.
Flammability limit - Lower (%) 0.8
Flammability limit - Upper (%) 9.0

10) STABILITY AND REACTIVITY

Stability Stable under normal temperature conditions.
Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid contact with: Strong oxidising agents. Strong alkalis. Strong mineral acids.
Haz. decomp. products Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

11) TOXICOLOGICAL INFORMATION

Inhalation	May cause irritation to the respiratory system. Vapours may cause headache, fatigue, dizziness and nausea. Prolonged inhalation of high concentrations may damage respiratory system. Irritating to respiratory system.
Ingestion	May cause discomfort if swallowed. May cause stomach pain or vomiting. Gastrointestinal symptoms, including upset stomach.
Skin contact	Prolonged or repeated exposure may cause severe irritation. Acts as a defatting agent on skin. May cause cracking of skin, and eczema. May cause allergic contact eczema. May cause sensitisation by skin contact. Irritating to skin.
Eye contact	Irritating to eyes. May cause chemical eye burns.
Route of entry	Inhalation. Skin and/or eye contact.

12) ECOLOGICAL INFORMATION

Ecotoxicity	Dangerous for the environment if discharged into watercourses.
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13) DISPOSAL CONSIDERATIONS

Disposal methods	Empty containers must not be burned because of explosion hazard. Dispose of waste and residues in accordance with local authority requirements.
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14) TRANSPORT INFORMATION

Proper shipping name	Aerosols
Environmentally	No.
Hazardous Substance/Marine Pollutant	
UN No. ROAD	1950
ADR class No.	2
ADR class	Class 2: Gases
ADR pack group	Not Applicable
ADR label No.	2.1
UN No. sea	1950
IMDG CLASS	2.1
IMDG pack gr.	Not Applicable
EMS	F-D, S-U
UN No. air	1950
Air class	2.1
Air pack gr.	Not Applicable



15) REGULATORY INFORMATION

Labelling



Extremely flammable.



Irritant.

Risk phrases	R36 Irritating to eyes.
	R67 Vapours may cause drowsiness and dizziness.
Safety phrases	S2 Keep out of the reach of children.
	S16 Keep away from sources of ignition - No smoking.
	S23 Do not breathe vapour/spray.
	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S51 Use only in well-ventilated areas..

UK Regulatory references	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. The Control of Substances Hazardous to Health Regulations 2002.
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Statutory instruments	The Control of Substances Hazardous to Health Regulations 2002.
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Approved code of practice	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. Classification and Labelling of Substances and Preparations Dangerous for Supply.
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Guidance notes	Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).
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16) OTHER INFORMATION

Risk phrases in full	R34 Causes burns.
	R12 Extremely flammable.
	R11 Highly flammable
	R36 Irritating to eyes.
	R37 Irritating to respiratory system.
	R67 Vapours may cause drowsiness and dizziness.
	R50 Very toxic to aquatic organisms.