




## SAFETY DATA SHEET

### 1 – IDENTIFICATION

IDENTIFIER	AQUA VISION
PRODUCT CODE	8200
RECOMMENDED USE	Glass and mirror cleaner.
RESTRICTIONS ON USE	Do not use with other cleaning products.
SUPPLIER / MANUFACTURER	AUTO-CHEM INC 33 de Lyon Repentigny, QC J5Z 4Z3 450-654-9292 www.autochem.com
EMERGENCY TELEPHONE	CANUTEC 1-613-996-6666 (24 hours)

### 2 – HAZARD IDENTIFICATION

CLASSIFICATION	Aerosol 1 Gases under pressure; Compressed gas	
LABEL ELEMENTS		
SIGNAL WORD	DANGER	
HAZARD STATEMENT	H222 H280	Extremely flammable aerosol. Contains gas under pressure; may explode if heated.
PRECAUTIONARY STATEMENTS – PREVENTION	P210 P211 P251	Keep away from heat, hot surfaces, sparks, pen flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.
PRECAUTIONARY STATEMENTS – RESPONSE		
PRECAUTIONARY STATEMENTS – STORAGE	P410+P412 P403	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place.
PRECAUTIONARY STATEMENTS - ELIMINATION		
OTHER HAZARDS	Not applicable	

### 3 – COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	C.A.S	CONCENTRATION
Propane	74-98-6	1 – 5 *
Isopropanol	67-63-0	1 – 5 *
2-butoxyethanol	111-76-2	1 – 5 *
n-butane	106-97-8	1 – 5 *

\* TRADE SECRET STATEMENT: The exact concentration of composition has been withheld as a trade secret.

#### 4 – FIRST AID MEASURES

ROUTE OF EXPOSURE	Inhalation, eyes, skin, ingestion
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INHALATION	IF INHALED: remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CONTROL CENTER or physician.
DERMAL	IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
OCULAR	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
ORAL	NEVER give anything orally if victim is losing consciousness, is unconscious or having convulsions. Rinse mouth with water thoroughly. DO NOT INDUCE VOMITING. Ask victim to drink two glasses of water. If vomiting occurs naturally, lean victim forward to reduce risks of aspiration. Continue to drink water. Obtain medical care.
NOTE TO PHYSICIAN	Specific treatment: treat symptomatically.

#### 5 – FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	Carbon dioxide, extinguishing powder, water spray. Fight larger fires with water spray.
UNSUITABLE EXTINGUISHING MEDIA	None known.
SPECIFIC HAZARDS	Container may explode. May form an explosive air/gas mixture.
PROTECTIVE EQUIPMENT	Fire-fighters must wear protective equipment and NIOSH approved self-contained breathing apparatus.
PRECAUTIONS	Do not let water run-off reach sewers, ditches or waterways.

#### 6 – ACCIDENTAL RELEASE MEASURES

PROTECTIVE EQUIPMENT	Wear appropriate respiratory equipment (See Section 8). Avoid direct contact with product. Remove non-essential personnel.
CONTAINMENT AND CLEAN UP	Ventilate spill area. Stop spill if safe to do so. Contain and absorb with an inert absorbing material for future disposal (See Section 13). Prevent spill from entering sewers or waterways. Retain water run-off if applicable. Inform proper authorities if necessary.
ENVIRONMENTAL PRECAUTIONS	Avoid entering sewers, waterways or restricted areas. Eliminate according to municipal, provincial and federal regulations.

## 7 – HANDLING AND STORAGE

HANDLING	Containers must be identified correctly. Handle in a well ventilated area. Avoid breathing dust, vapours or mists. Avoid contact with eyes, skin and clothes. Keep containers closed when not in use. Empty containers may contain residues and must be handled as hazardous waste. Maintain good personal hygiene before eating, drinking or smoking. Do not eat, drink or smoke while using the product or in proximity. Wash contaminated clothing before reuse.
STORAGE	Store in a well-ventilated place. Keep cool. Store away from incompatible materials. Keep containers closed.
INCOMPATIBLE MATERIALS	No data.

## 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

CHEMICAL NAME	C.A.S.	SOURCE	VALUE
Propane	74-98-6	CSST NIOSH OSHA	TWA 1000 ppm, 1800 mg/m <sup>3</sup> TWA 1000 ppm, 1800 mg/m <sup>3</sup> TWA 1000 ppm, 1800 mg/m <sup>3</sup>
Isopropanol	67-63-0	ACGIH ACGIH NIOSH NIOSH OSHA	TWA 200 ppm STEL 400 ppm TWA 400 ppm (980 mg/m <sup>3</sup> ) STEL 500 ppm (1255 mg/m <sup>3</sup> ) TWA 400 ppm (980 mg/m <sup>3</sup> )
2-butoxyethanol	111-76-2	CSST ACGIH	TWA 20 ppm, 97 mg/m <sup>3</sup> TWA 20 ppm
n-butane	106-97-8	CSST NIOSH	TWA 800 ppm, 1900 mg/m <sup>3</sup> TWA 800 ppm, 1900 mg/m <sup>3</sup>

ENGINEERING CONTROLS	Use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels to an acceptable level.
RESPIRATORY PROTECTION	Maintain atmospheric concentrations below exposure limits. If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator. In case of spill or leak resulting in unknown concentration, use a NIOSH approved supplied air respirator.
PROTECTIVE EQUIPMENT AND CLOTHING	Wear chemical / impermeable gloves or other protective clothing to prevent repeated or continuous contact with the skin during handling and usage. Wear goggles to prevent mist, vapours or dust to contact eyes. Insure that eyewash stations, showers and cleaning stations are near to work station.
OCULAR PROTECTION	Chemical goggles; also wear a face shield if splashing hazard exists.
GENERAL HYGIENE RECOMMENDATIONS	Ensure that eyewash stations and safety showers are proximal to the work-station location. Avoid production of high concentrations of dust, vapours or mists. Avoid contact with skin and eyes. Avoid breathing dust, vapours or mists. Never eat, drink or smoke near work stations. Good hygiene is recommended after using this product. Clean clothing before reuse.

## 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Aerosol.
ODOUR	Aromatic.
ODOUR TRESHOLD	Not available.
pH	Not available.
MELTING / FREEZING POINT	Not available.
INITIAL BOILING POINT	-44°C
FLASH POINT	-19°C
EVAPORATION RATE	Not available.
FLAMMABILITY	Extremely flammable.
LOWER FLAMMABLE/EXPLOVISE LIMIT	Not determined.
UPPER FLAMMABLE/EXPLOSIVE LIMIT	Not determined.
VAPOUR PRESSURE @ 20°C	17 mm Hg
VAPOUR DENSITY	Not available.
RELATIVE DENSITY	0.77 à 0.85
SOLUBILITY (in water)	Soluble.
PARTITION COEFFICIENT (n-octanol/water)	Not available.
AUTO-IGNITION TEMPERATURE	Not available.
DECOMPOSITION TEMPERATURE	Not available.
VOC (w/w)	9.3%
VISCOSITY	Not available.

## 10 – STABILITY AND REACTIVITY

REACTIVITY	Stable under recommended usage.
CHEMICAL STABILITY	Stable under normal usage conditions.
HAZARDOUS REACTIONS	Polymerization will not occur.
CONDITIONS TO AVOID	Excessive heat, ignition sources.
INCOMPATIBLE MATERIALS	Other cleaning products.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon oxides, nitrogen oxides.
ADDITIONAL INFORMATION	None.

## 11 – TOXICOLOGICAL INFORMATION

ACUTE EFFECTS	
INHALATION	No data.
DERMAL	No data.
OCULAR	No data.
ORAL	No data.
CHRONIC EFFECTS	
INHALATION	No data.

DERMAL	No data.		
OCULAR	No data.		
ORAL	No data.		
ADDITIONAL INFORMATION			
CARCINOGENIC EFFECTS (IARC)	Isopropanol	67-63-0	Group 3 Not classifiable as to its carcinogenicity to humans
	2-butoxyethanol	111-76-2	Group 3 Not classifiable as to its carcinogenicity to humans
MUTAGENIC EFFECTS	No data.		
TERATOGEN EFFECTS	No data.		
REPRODUCTION	No data.		
SENSIBILISATION	No data.		
TARGET ORGANS	No data.		
AGGRAVATED CONDITIONS	No data.		
SYNERGISTIC SUBSTANCES	No data.		

CHEMICAL NAME	C.A.S.	LD50 ORAL mg/kg	LD50 DERMAL mg/kg	LC50 INHALATION
Propane	74-98-6	No data.	No data.	No data.
Isopropanol	67-63-0	>4710, rat	>12870, rabbit	12000 ppm, rat
2-butoxyethanol	111-76-2	560, rat	220, rabbit	450 ppm, 4 h, rat
n-butane	106-97-8	No data.	No data.	276000 ppm, 4h, rat

## 12 – ECOLOGICAL INFORMATION

Isopropanol	67-63-0
LC50 11130 mg/L, 96 hrs static	Pimephales promelas
LC50 9640 mg/L, 96 hrs, dynamic	Pimephales promelas
LC50 1400 mg/L, 96 hrs	Lepomis macrochirus
EC50 1000 mg/L, 72 hrs	Desmodemus subspicatus
EC50 1000 mg/L, 96 hrs	Desmodemus subspicatus

2-butoxyethanol	111-76-2
LC50 1474 mg/L, 96 h – Aigue	Oncorhynchus mykiss
EC50 1550 mg/L, 48 h – Aigue	Daphnia



PERSISTENCE AND DEGRADABILITY	Not available.
BIOACCUMULATIVE POTENTIAL	Not available.
SOIL MOBILITY	Not available.
OTHER ADVERSE EFFECTS	Not available.
ADDITIONAL INFORMATION	Do not let material or fire-fighting water run-off enter sewers or

	waterways. Obstruct drains and ditches. Affected areas must be cleaned and restored to their original conditions or to the satisfaction of the authorities.
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**13 – DISPOSAL CONSIDERATIONS**

DISPOSAL METHOD	Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.
CONTAMINATED PACKAGING	Empty containers should be recycled or disposed of through an approved waste management facility.

**14 – TRANSPORT INFORMATION**

TRANSPORT OF DANGEROUS GOODS (CANADA)				
UN NUMBER	PROPER SHIPPING NAME	CLASS	PACKING GROUP	PLACARD
1950	AEROSOLS, flammable	2.1	Not applicable.	
LIMITED QUANTITY : 1 KG				
FLASH POINT		-19°C		

MARINE POLLUTANT	No.
SPECIAL PRECAUTIONS	Do not expose to temperatures exceeding 50°C/122°F. Avoid freezing.

**15 – REGULATORY INFORMATION**

CANADA	
CEPA	All components of this product are either listed or exempt from listing on the Domestic substances List (DSL).
USA	
TSCA	All components of this product are either listed or exempt from listing on the Toxic Substances Control Act (TSCA) Inventory.

**16 – OTHER INFORMATION**

VERSION	1.0
DATE	September 9 <sup>th</sup> , 2015
PREPARED BY	AUTO-CHEM INC
ABBREVIATIONS	ABBREVIATIONS
ACGIH AIHA	American Conference of Governmental Industrial Hygienists American Industrial Hygiene Association

CAS	Chemical Abstract Service
CEPA	Canadian Environmental Protection Act
CIRC	Centre International pour la Recherche sur le Cancer
CL / LC	Concentration létale /Lethal concentration
DL / LD	Dose létale / Lethal dose
CE / EC	Concentration efficace / Effective concentration
IARC	International Agency for Research on Cancer
LCPE	Loi Canadienne sur la Protection de l'Environnement
LES/NDL	Liste extérieure des substances / Non domestic substances list
LIS/DSL	Liste intérieure des substances / Domestic substances list
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
SIMDUT	Système d'information sur les matières dangereuses utilisées au travail
STEL	Short-term Exposure Limit
STOT	Specific target organ toxicity
TCOC	Toxicité pour certains organes cibles
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
USEPA	United States Environmental Protection Agency
VECD	Valeur exposition courte durée
VEMP	Valeur exposition moyenne pondérée
WHMIS	Workplace Hazardous Materials Information System
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