



SAFETY DATA SHEET

1 – IDENTIFICATION

IDENTIFIER	GLASS CLEANER
PRODUCT CODE	3032, 3033, 3034, 3036
RECOMMENDED USE	Glass 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	Eye irritation 2B	
LABEL ELEMENTS		
SIGNAL WORD	WARNING	
HAZARD STATEMENT	H320	Causes eye irritation.
PRECAUTIONARY STATEMENTS – PREVENTION	P264	Wash hands thoroughly after handling.
PRECAUTIONARY STATEMENTS – RESPONSE	P305+P351+P338 P337+P313	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.
PRECAUTIONARY STATEMENTS – STORAGE		
PRECAUTIONARY STATEMENTS - ELIMINATION	P501	Dispose contents/containers according to municipal, provincial and federal regulations.
OTHER HAZARDS	Not applicable.	

3 – COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	C.A.S	CONCENTRATION
Isopropyl alcohol	67-63-0	5 – 10 *
2-Butoxyethanol	111-76-2	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	Chemical foam, water, carbon dioxide, according to the conditions of the fire.
UNSUITABLE EXTINGUISHING MEDIA	Water jet may cause formation of foam.
SPECIFIC HAZARDS	None.
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	Strong acids.
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8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

CHEMICAL NAME	C.A.S.	SOURCE	VALUE
Isopropyl alcohol	67-63-0	ACGIH ACGIH OSHA OSHA NIOSH NIOSH NIOSH CSST CSST	TWA 200 ppm STEL 400 ppm TWA 400 ppm (980 mg/m3) STEL 500 ppm (1225 mg/m3) TWA 400 ppm (980 mg/m3) STEL 500 ppm (1225 mg/m3) IDLH 2000 ppm TWA 400 ppm (980 mg/m3) STEL 500 ppm (1225 mg/m3)
2-Butoxyethanol	111-76-2	ACGIH OSHA NIOSH NIOSH CSST CSST	TLV 0.2 mg/m3 TWA 1 mg/m3 TWA 1 mg/m3 IDLH 15 mg/m3 TWA 1 mg/m3 STEL 3 mg/m3

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	Clear, blue liquid.
ODOUR	Citrus.
ODOUR TRESHOLD	Not available.
pH	9.46
MELTING / FREEZING POINT	0°C
INITIAL BOILING POINT	100°C

FLASH POINT	Not applicable.
EVAPORATION RATE	Not available.
FLAMMABILITY	Not flammable.
LOWER FLAMMABLE/EXPLOIVE LIMIT	Not applicable.
UPPER FLAMMABLE/EXPLOSIVE LIMIT	Not applicable.
VAPOUR PRESSURE	Not available.
VAPOUR DENSITY	Not available.
RELATIVE DENSITY	0.971
SOLUBILITY (in water)	Soluble.
PARTITION COEFFICIENT (n-octanol/water)	Not available.
VOC	34.96 g/L (0.036 kg/kg)
VISCOSITY	Similar to water.

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	Do not mix with other cleaning products.
INCOMPATIBLE MATERIALS	Strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon oxides.
ADDITIONAL INFORMATION	None.

11 – TOXICOLOGICAL INFORMATION

ACUTE EFFECTS			
INHALATION	May cause temporary irritation.		
DERMAL	Not a dermal irritant.		
OCULAR	May cause temporary irritation and redness.		
ORAL	May cause gastric distress if ingested in large quantities.		
CHRONIC EFFECTS			
INHALATION	No data.		
DERMAL	No data.		
OCULAR	No data.		
ORAL	No data.		
ADDITIONAL INFORMATION			
CARCINOGENIC EFFECTS (IARC)	Isopropyl alcohol	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
Isopropyl alcohol	67-63-0	5045, rat	12800, rabbit	16970 ppm, 4h, rat
2-Butoxyethanol	111-76-2	560, rat	400, rabbit	450 ppm. 4 h, rat

12 – ECOLOGICAL INFORMATION

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

2-butoxyethanol	111-76-2
LC50 1474 mg/L, 96 h, static	Oncorhynchus mykiss
EC50 1800 mg/L, 48 h, static	Daphnia magna
EC50 977 mg/L, 72 h, static	Pseudokirchneriella subcapitata

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.

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)

Not regulated for transport.

MARINE POLLUTANT

No.

SPECIAL PRECAUTIONS

None.

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

16 August 2017

PREPARED BY

AUTO-CHEM INC.

ABBREVIATIONS

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ACGIH

American Conference of Governmental Industrial Hygienists

AIHA

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/NDSL

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

<p>USEPA VECD VEMP WHMIS</p>	<p>United States Environmental Protection Agency Valeur exposition courte durée Valeur exposition moyenne pondérée Workplace Hazardous Materials Information System</p>
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