



SAFETY DATA SHEET

IMMIX Chemical & Solutions

Crystal Clear

Revision Date

05/25/2018

SECTION – 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME Crystal Clear **PRODUCT USE** Glass Cleaner **ITEM** 107
COMPANY NAME IMMIX Chemical & Solutions Company **Office** 501-286-5305
 2693 2nd St Cabot
 Cabot AR 72023
EMERGENCY TELEPHONE NUMBER: INFOTRAC (800) 535-5053

SECTION – 2 HAZARDS INFORMATION

CAUTION! Causes eye irritation. Causes mild skin irritation. Mist may be harmful if inhaled. May be harmful if swallowed. Do not get in eyes, on skin, or on clothing. Use personal protective equipment as required. Avoid release to the environment.



- Irritant (skin and eye)
- Acute Toxicity
- Respiratory Tract Irritant

SECTION – 3 COMPOSITION INFORMATION

CHEMICAL NAME	COMMON NAME AND SYNONYMS	CAS #	IMPURITIES	PERCENT
Isopropyl Alcohol	Isopropanol, 2-propanol	67-63-0	Water <1%	5 – 9%
2-butoxyethanol	Ethylene Glycol Monobutyl Ether	111-76-2		1 - 2%

SECTION – 4 FIRST AID MEASURES

EYE CONTACT Immediately flush eyes with cold water for at least 15 minutes while lifting upper and lower eyelids. Remove contact lenses if present and easy to do without injury to the eye and continue rinsing. If irritation persists obtain medical attention, preferably from an ophthalmologist.

SKIN CONTACT Wash contaminated skin with plenty of water. Remove any contaminated clothing and wash before reuse. If irritation is present or occurs obtain medical attention.

INHALATION Remove person to fresh air, if they have problem breathing, show signs of overexposure or feel unwell obtain medical attention.

INGESTION DO NOT INDUCE VOMITING. If person is fully conscious give one to two glasses of water to dilute and obtain medical attention. If vomiting occurs, keep head below hips to prevent aspiration into lungs.

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

Eyes Can cause eye irritation.

Skin May cause mild skin irritation.

Inhalation Mist may cause irritation if inhaled.

Ingestion Harmful If Swallowed. Can cause burning in the throat and stomach. Moderate acute toxicity if swallowed.

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes Can cause eye irritation.

Skin Can cause mild skin irritation. May cause an allergic skin reaction.

Inhalation Mist may cause irritation if inhaled.

Ingestion May be Harmful If Swallowed. Can cause burning in the throat and stomach. Ingestion may affect target organs.

Notes to Physician In case of ingestion, gastric lavage with activated charcoal can be used promptly to prevent absorption.

SECTION – 5

Extinguishing Media Suitable Use Water spray, DRY chemicals, CO2 or alcohol foam for the surrounding fire.

Hazardous Decomposition Burning or thermal decomposition can produce carbon monoxide and/or carbon dioxide and other toxic fumes.

Reactive With Strong acids or oxidizers.

Protective Equipment Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear.

Explosion Hazards Not applicable.

Static Discharge Not applicable.

Mechanical Impact Not applicable.

NFPA HAZARD RATINGS

Health	1
Flammability	0
Reactivity	0
Personal Protection	FBG

FLAMMABLE LIQUIDS HAZARD CLASSIFICATION

Criteria Flash Point is higher than GHS Criteria.

GHS Not applicable.

NFPA IIIB [Flash Point > 93.3°C (200°F)]

WHMIS Not applicable.

SECTION – 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Warn personal to move away.
Personal Precautions	Ventilate area.
Protective Equipment	Safety Glasses, Chemical Gloves and Rubber Boots.
Containment	Cover or dike (with an inert material) any floor drains to prevent material from entering the environment.
Clean Up Procedures	Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Vacuum or sweep up material and place in a disposal container.
Disposal	Dispose of material in accordance with all State and Federal Guidelines and Regulations.




SECTION – 7 HANDLING AND STORAGE

Handling	Use appropriate safety equipment. Avoid eye and skin contact. Harmful if swallowed. Avoid release to the environment.
Storage	Keep container closed when not in use and store away from incompatible materials.
Incompatible Materials	Avoid contact with strong acids or oxidizers.

SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>EXPOSURE LIMITS</u> COMPONENT	ACGIH (TWA 8)	ACGIH (STEL)	OSHA PEL (TWA 8)	OSHA (CEIL)	Significant Exposure
Isopropyl Alcohol	200 ppm (A4)	400 ppm	400 ppm	400 ppm	
2-butoxyethanol	20 ppm		50 ppm 240 mg/m ³		Skin

PERSONAL PROTECTIVE EQUIPMENT

					
Chemical Safety Glasses, Goggles or Face Shield	Impervious Chemical Gloves				Eye Bath and Safety Shower

VENTILATION

Ventilate to keep vapors of this material below the lowest ppm listed above. If over Threshold Limit Value use NIOSH approved respirator.

HMIS HAZARD RATINGS

Health	1
Flammability	0
Reactivity	0
Personal Protection	B =  + 



SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	>212°F (100°C) TAG Closed Cup	Specific Gravity / Relative Density	1.01
Flammable Limits	ND Lower ND Upper	Molecular Weight	Not determined
Auto-Ignition Temp.	Not determined	Initial Boiling Point	Not determined
Physical State	Liquid	Boiling Range	212°F to 220°F
Appearance	Clear Blue	Vapor Pressure	Not determined
Odor	Pleasant	Vapor Density	Not determined
Odor Threshold	Not determined	Freeze Point	29°F to 32°F
Solubility (In Water)	100%	Melting Point	Not applicable
Volatiles	< 99%	Partition Coefficient: n-octanol/water (log Kow)	Not determined
VOC	< 8%	Decomposition Temperature	Not determined
pH (+ / - 0.4)	7.5	Evaporation Rate	Not determined

SECTION – 10 STABILITY AND REACTIVITY

Reactivity (Specific Test Data)	None available.
Chemical Stability	Stable.
Hazardous Polymerization	Will not occur.
Conditions To Avoid	Incompatible materials.
Incompatible Materials	Strong acids or oxidizers.
Thermal Decomposition	Burning or thermal decomposition can produce carbon monoxide and/or carbon dioxide.

SECTION – 11 TOXICOLOGICAL INFORMATION**ROUTES OF EXPOSURE**

Eyes (Yes), **Skin** (Yes), **Inhalation** (Mist), **Ingestion** (Yes)

ACUTE – Effects Of Single Overexposure

Eyes Can cause eye irritation.

Skin May cause mild skin irritation.

Inhalation Mist may cause irritation if inhaled.

Ingestion Harmful If Swallowed. Can cause burning in the throat and stomach. Moderate acute toxicity if swallowed.

CHRONIC – Prolonged or Repeated Overexposure

Eyes Can cause eye irritation.

Skin Can cause mild skin irritation. May cause an allergic skin reaction.

Inhalation Mist may cause irritation if inhaled.

Ingestion May be Harmful If Swallowed. Can cause burning in the throat and stomach. Ingestion may affect target organs.

Target Organs Skin, Eyes, Liver, Kidneys or Respiratory System.

Pre-Existing Medical Conditions Persons with pre-existing skin disorders may be more susceptible to irritation. Preexisting kidney or liver disorders may be aggravated by exposure to this product.

Notes to Physician In case of ingestion, gastric lavage with activated charcoal can be used promptly to prevent absorption.

CARCINOGENIC This product contains concentrations above 0.1% of the following:

Chemical	NTP	ACGIH	IARC	GHS Category
None Listed				

MUTAGENIC AND TERATOGENIC EFFECTS – May cause fetal and reproductive abnormalities.

Chemical	Mutagenic	Teratogenic	Developmental	Percent	GHS Category
None Listed					

ACUTE TOXICITY

Component	Type	Form	Subject	Result Value	Exposure Time	GHS Category
Isopropyl Alcohol	LD50	Oral	Mouse	3600 mg/kg	4 Hour	5 (>2000 mg/kg)
	LD50	Dermal	Rabbit	12800 mg/kg		5 (>2000 mg/kg)
2-butoxyethanol	LD50	Oral	Rat	3000 mg/kg		5 (>2000 mg/kg)
	LD50	Dermal	Rabbit	220 mg/kg		3 (> 200, ≤1000 mg/kg)
	LD50	Dermal	Guinea Pig	> 2000 mg/kg		5 (>2000 mg/kg)
	LC50	Inhaled	Rat	700 ppm		3 (>500, ≤2500 ppm)

SECTION – 12 ECOLOGICAL INFORMATION

Component	Type	Subject	Result Value	Exposure Time	GHS Category
Isopropyl Alcohol	LC50	Fish (Leuciscus idus)	>100 mg/L		4 (>100 mg/L)
2-butoxyethanol	LC50	Water flea (Daphnia magna)	835 mg/L		4 (>100 mg/L)
	LC50	Flathead Minnow (Pimephales promelas)	1900 mg/L		4 (>100 mg/L)
	LC50	Bluegill (Lepomis macrochirus)	435 mg/L		4 (>100 mg/L)

Persistence And Degradability This product is inherently biodegradable according to the OECD definition.

Bioaccumulative Potential No Data Available.

Mobility In Soil No Data Available.

Other Adverse Effects No Data Available.

SECTION – 13 DISPOSAL CONSIDERATIONS

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER.

Dispose of any waste in accordance with all State and Federal Guidelines and Regulations.

ENVIRONMENTAL FATE

This material, as supplied, when discarded or disposed of, is a hazardous waste according to Federal Regulations (40 CFR 261) due to its composition containing some or all of its components. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste.

The transportation, storage, treatment and disposal of RCRA waster material must be conducted in compliance with 40 CFR 262, 263, 264 and 270. Disposal can only occur in property permitted facilities, Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate, or otherwise inappropriate.

SECTION – 14 TRANSPORT INFORMATION**D.O.T. CLASSIFICATION****UN Number Proper Shipping Name**

Not Regulated Non Hazardous – Compounds Cleaning Liquid

Hazard Class	Packing Group	Label Codes	Reportable Quantity	Response Code	Marine Pollutant
NA	PGIII	NA	NA	NA	No

SECTION – 15 REGULATORY INFORMATION**TSCA**

Chemical Name	CAS No.	Sec 8(b) Inventory	Sec 8(d) Health & Safety	Sec 4(a) Chemical Test Rules	Sec 12(b) Export Notification
Isopropyl Alcohol	67-63-0	Yes	Yes		
2-butoxyethanol	111-76-2	Yes	Yes		

HCS CLASSIFICATION

Not applicable

REPORTABLE QUANTITIES

Chemical Name	CAS No.	Extremely Hazardous		Reportable Quantity	Emission Reporting	RCRA Code	RMP TQ Sec112r
		EPCRA TPQ Sec. 302	EPCRA RQ Sec. 304	CERCLA RQ Sec. 103	TRI Sec. 313		
Isopropanol	67-63-0				Yes		

SARA

Chemical Name	CAS No.	Sec 311 Hazardous Chemical			Sec 311 & 312 Hazards			
		Hazardous Chemical	Acute	Chronic	Flammable	Pressure	Reactive	
Isopropyl Alcohol	67-63-0	Yes	Yes	Yes	Yes			
2-butoxyethanol	111-76-2	Yes	Yes	Yes	Yes			

RIGHT TO KNOW

Chemical Name	CAS No.	State												
		CA	CT	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
Isopropyl Alcohol	67-63-0			Yes				Yes	Yes		Yes	Yes	Yes	
2-butoxyethanol	111-76-2								Yes					

CALIFORNIA

Proposition 65	CAS No.	WARNING! This product contains chemicals known to the state of California to cause:			
		Birth Defects	Reproductive Harm	Carcinogen	Developmental
None Listed					

CLEAN AIR & WATER ACTS

Chemical Name	CAS No.	Clean Air Acts			Clean Water Acts		
		HAP	Ozone Class 1	Ozone Class 2	HS	PP	TP
None Listed							

INTERNATIONAL REGULATIONS – The components of this product are listed on the chemical inventories of the following countries

Chemical Name	CAS No.	Australia	Canada	Europe (EINECS)	Japan	Korea	UK
Isopropyl Alcohol	67-63-0	Yes	Yes	Yes	Yes	Yes	Yes
2-butoxyethanol	111-76-2	Yes	Yes	Yes	Yes	Yes	Yes

DSCL (EEC)

Code	Definition (R-Phrases / S-Phrases)
R36/38	Irritating to eyes and skin.
R22	Harmful if swallowed
S24/25	Avoid contact with skin and eyes
S2	Keep out of the reach of children.
S36/37	Wear suitable protective clothing and gloves.
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

WHMIS Classification

Chemical Name	DSL	Class	Definition
2-butoxyethanol, Isopropyl Alcohol	Yes	D2B	Materials Causing Other Toxic Effects – (TOXIC)

SECTION – 16 OTHER INFORMATION

Revision Date: 7/15/14 Supersedes MSDS Dated:

Source Information	Chemical	Cas No.	Revision Date
Shell Chemical Company	Isopropanol	67-63-0	5/8/2009
DOW Chemical	2-butoxyethanol	111-76-2	2/2/2009

SDS Legend

ACGIH	= American Conference of Governmental Industrial Hygienists	NTP	= National Toxicology Program
CAS	= Chemical Abstracts Service Registry	OSHA	= Occupational Safety and Health Administration
CEILING	= Ceiling Limit (15 minutes)	PEL	= Permissible Exposure Limit (OSHA)
CERCLA	= Comprehensive Environmental Response, Compensation, and Liability Act	PP	= California Priority Pollutant under the Clean Water Act
EPA	= Environmental Protection Agency	REL	= Recommended exposure limit (NIOSH)
HAP	= California Hazardous air pollutant Clean Air Act	SARA	= Superfund Amendments and Reauthorization Act
HS	= California Hazardous Substance under the Clean Water Act	STEL	= Short Term Exposure Limit (15 minutes)
IARC	= International Agency for Research on Cancer	TC Lo	= Lowest air concentration that is toxic to a given species.
LC50	= Air concentration that is lethal to 50% of a given species in a given time.	TD Lo	= Lowest dose that is toxic to a given species.
LD50	= Dose that is lethal to 50% of a given species by a given route of exposure.	TLV	= Threshold Limit Value (ACGIH)
LEL	= Lower Explosive Limit	TP	= California Toxic Pollutant under the Clean Water Act
NE	= Not Established	TWA	= Time Weighted Average (8 hours)
NFPA	= National Fire Protection Association	UEL	= Upper Explosive Limit
NIOSH	= National Institute for Occupational Safety and Health	WHMIS	= Worker Hazardous Materials Information System (Canada)

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