

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: Isopropyl Alcohol Product Number: Isopropyl Alcohol Synonym(s): Isopropyl alcohol anhydrous; Isopropanol; IPA

1.2 Relevant identified uses of the substance or mixture and uses advised against General Use: None specified Uses advised against: Use only in well ventilated areas.

1.3 Details of the supplier and of the safety data sheet Manufacturer/Distributor GreenChem Industries 222 Clematis Street, Suite 207 West Palm Beach, FL 33401 USA 1-561-659-2236

1.4 Emergency telephone number CHEMTREC: 1-800-424-9300 (USA)

SECTION 2 - HAZARDS IDENTIFICATION

 2.1 Classification of substance or mixture Product definition: Substance Classification in accordance with 29 CFR 1910 (OSHA HCS) and Regulation EC No. 1272/2008 Flammable Liquid - Category 2 [H225] Eye Irritation - Category 2A [H319] Single Target Organ Toxicity, Single Exposure - Category 3; STOT SE 3 [H336]

2.2 Label elements Hazard symbol(s):



	GHS02 GHS07
Signal word:	Danger
Hazard statement(s):	H225 - Highly flammable liquid and vapor
	H319 - Causes serious eve irritation
	H336 - May cause drowsiness or dizziness
Precautionary stateme	ents:
[Prevention]	P210 - Keep away from heat, open flames and hot surfaces. No smoking.
	P233 - Keep container tightly closed.
	P240 - Ground and bond container and receiving equipment.
	P241 + P242 - Use explosion proof electrical, ventilating and lighting equipment. Use only non-sparking tools.
	P243 - Take precautionary measures against static discharge.
	P261 - Avoid breathing fumes, mist and vapor.
	P264 - Wash hands and other exposed skin areas thoroughly after handling.
	P271 - Use only outdoors or in a well-ventilated area.
	P280 - Wear protective gloves, protective clothing and eye protection.
[Response]	P303 + P361 + P353 - IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water or shower.
	P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a comfortable position for breathing. Call a POISON CENTER or doctor if you feel unwell.
	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P337 + P313 - If eye irritation persists: Get medical attention.
	P362 - Take off contaminated clothing and wash before reuse.
	P370 + P378 - In case of fire: Use water fog, foam, dry chemical or carbon dioxide for extinction.
[Storage]	P405 + P403 + P233 + P235 - Store locked up in a well-ventilated place. Keep container tightly closed. Keep cool.
[Disposal]	P501 - Dispose of contents and containers in accordance with national and local regulations.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Repeated exposure may cause skin dryness or cracking.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

% by Weight	Ingredient	CAS Number	EC Number	Index Number	GHS Classification
> 99	Isopropanol	67-63-0	200-661-7	603-117-00-0	H225, H319, H335

There are no additional ingredients present in this product which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

3.2 Mixtures

Not applicable

SECTION 4 – FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: If product mist or vapor causes respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. If unconscious, maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist or if the victim feels unwell, seek medical attention.

Eyes: Immediately flush eyes with large amounts of water or saline solution for at least 15 minutes, occasionally lifting the upper and lower lids. Remove contact lenses, if present and easy to do, after first 2 minutes and continue rinsing. If irritation persists seek medical attention, preferably from an ophthalmologist.

Skin: Flush skin with large amounts of water while removing contaminated clothing. Wash the affected area with soap and water followed by thorough rinsing. Wash contaminated clothing and shoes before reuse. If irritation persists, seek medical attention.

Ingestion: Rinse mouth with water if the victim is conscious. Remove dentures if present. DO NOT induce vomiting unless directed to do so by medical personnel. Vomiting may occur spontaneously. To prevent aspiration of material into the lungs, lay the victim on one side with the head lower than the waist. Never give anything by mouth to an unconscious or convulsing person. Do not leave the victim unattended. Seek immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Potential health symptoms and effects

Eyes: Causes serious eye irritation with inflammation, swelling, pain, tearing and blurred vision. Vapor or mist can cause eye irritation.

Skin: May cause skin irritation with localized redness, itching and discomfort. Prolonged contact with unprotected skin may cause drying and cracking of the skin and dermatitis.

Inhalation: Irritating to mucous membranes and to the respiratory system. Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, drowsiness, dizziness, unconsciousness and coma. May cause narcotic effects in high concentration. Aspiration of this material may lead to lung edema and pneumonia. May be harmful if inhaled.

Ingestion: May cause irritation of the digestive tract with nausea, vomiting, abdominal pain and diarrhea. May cause central nervous system characterized by excitement, followed by headache, dizziness, drowsiness and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.

Chronic: Individuals with pre-existing skin conditions and respiratory disorders may be more susceptible to the effects of this product. Prolonged or repeated skin contact may cause defatting of the skin and dermatitis or aggravate existing skin conditions. Overexposure may cause mild, reversible liver effects. May cause liver effects. Isopropanol may be a possible human carcinogen. Refer to Section 11.2.

4.3 Indication of any immediate medical attention and special treatment needed

Advice to doctor and hospital personnel

Treat symptomatically and supportively. Effects may be delayed.

SECTION 5 – FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable methods of extinction: Use extinguishing media such as water spray or fog, carbon dioxide, foam and dry chemical. Unsuitable methods of extinction: Water jets or streams may spread the fire.

5.2 Special hazards arising from the substance or mixture

Highly flammable liquid and vapor! Vapors are heavier than air and can travel along the ground to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas. Exposure to ignition sources (e.g. cell phones) can ignite vapors, causing a flash fire. Closed containers may explode due to the buildup of pressure when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent or may be delayed. Obtain medical attention.

Explosion hazards: Avoid sources of ignition. Vapors may form an explosive mixture with air, especially in confined spaces. Ground and bond containers in storage and when container is in use.

5.3 Advice to firefighters

Firefighters should wear full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. If possible, firefighters should control runoff to prevent environmental contamination. Notify appropriate authorities of potential fire and explosion hazard if liquid enters sewers or waterways.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate non-essential personnel. Wear appropriate protective clothing and equipment designated in Section 8.2. Ventilate the area. Remove all sources of ignition. NO SMOKING. Clean up spills immediately. Spill creates a slip hazard.

6.2 Environmental precautions

Avoid dispersal of spilled material or runoff and prevent contact with soil and entry into drains, sewers or waterways.

6.3 Methods and materials for containment and cleaning up

Approach spill from upwind direction. Cover drains and contain spill. Cover spill with a large quantity of inert absorbent. Do not use combustible material such as sawdust. Collect material using non-sparking tools and place into an approved container for proper disposal. Observe possible material restrictions (Sections 7.2 and 10.5). Do not allow material or runoff from rinsing contaminated areas to enter floor drains or storm drains and ditches that lead to waterways. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

For indications about waste treatment, see Section 13.

SECTION 7 – STORAGE AND HANDLING

7.1 Precautions for safe handling

Wear all appropriate personal protective equipment specified in Section 8.2. Do not get in eyes or on skin or clothing. Do not inhale mist or vapor. NO SMOKING. If normal use of material presents a respiratory hazard, use only adequate ventilation or wear an appropriate respirator. Open containers slowly to control possible pressure release. Wash contaminated clothing and shoes thoroughly before reuse.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Vapors are heavier than air and can travel along the ground to a source of ignition and flash back.

7.2 Conditions for safe storage, including any incompatibilities

Store in dry, cool, well-ventilated areas away from incompatible materials (see Section 10.5), food and drink. Keep away from heat and ignition sources. Transfer only to approved containers having correct labeling. Keep containers tightly closed when not in use. Protect containers against physical damage. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Containers are hazardous when empty as they contain product residue. Do not cut, drill, weld, braze, solder grind or perform similar operations on or near empty containers. Use appropriate containment to avoid environmental contamination. Ventilate closed areas. Do not take internally. Keep out of reach of children.

7.3 Specific end uses

Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit values

CAS Number	Ingredient	OSHA PEL	ACGIH TLV	NIOSH
67-63-0	0 Isopropanol 400 ppm; 980 mg/m ³ TWA		400 ppm; 941 mg/m ³ TWA	400 ppm; 980 mg/m ³ TWA
		400 ppm; 984 mg/m ³ STEL		

8.2 Exposure controls

Engineering measures: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. Refer to Section 7.1.

Individual protection measures: Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier.

Hygiene measures: Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking, smoking or using the lavatory.

Eye/face protection: Wear safety glasses with unperforated side shields or protective splash goggles during use.

Hand protection: Wear gloves made of Nitrile rubber or those recommenced by glove supplier for protection against materials in Section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of selected gloves must be greater than the intended use period.

Skin protection: Wear protective clothing. Wear protective boots if the situation requires.

Respiratory protection: Always use an approved respirator when vapor/aerosols exceed permissible exposure limits. Where risk assessment shows air-purifying respirators are appropriate use a half-mask respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Environmental exposure controls: Do not empty into drains.

PPE must not be considered a long-term solution to exposure control. PPE usage must be accompanied by employer programs to properly select,

maintain, clean fit and use. Consult a competent industrial hygiene resource to determine hazard potential and/or the PPE manufacturers to ensure adequate protection



SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

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Appearance	Clear, colorless liquid
Odor	Alcoholic
Odor Threshold	1.0 - 196.1 ppm
Molecular Weight	60.1 g/mol
Chemical Formula	C ₃ H ₈ O
рН	7 @ 20 °C
Freezing/Melting Point	-89.5 °C (-129.1 °F)
Initial Boiling Point	82.4 °C (180.3 °F) @ 760 mm Hg
Evaporation Rate	No data available
Flammability (solid, gas)	Not applicable
Flash Point	12 °C (54 °F) closed cup
Autoignition Temperature	797 °F (425 °C), Method: DIN 51794
Decomposition Temperature	No data available
Lower Explosive Limit (LEL)	2% (v)
Upper Explosive Limit (UEL)	13.4% (v)
Vapor Pressure	32.25 mm Hg @ 20 °C
Vapor Density	2.07
Specific Gravity	0.786
Density	0.786 g/ml (6.56 lb/gal) @ 20 °C
Viscosity	2.2 cPs @ 20 °C
Solubility in Water	Miscible
Partition Coefficient (n-octanol/water)	$\log P_{ow} = 0.05$
Oxidizing Properties	Not applicable
Explosive Properties	Not applicable
Volatiles by Weight @ 21 °C	100%

9.2 Other Data

None known

SECTION 10 – STABILITY AND REACTIVITY

10.1 Reactivity

This material is stable under normal handling conditions and use.

10.2 Chemical Stability

This material is stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Vapors may form explosive mixture with air. May react violently and exothermically with some materials. Hazardous polymerization will not occur.

10.4 Conditions to avoid

High temperatures, sources of ignition, hot surfaces, contact with incompatible materials. Avoid use in confined areas.

10.5 Incompatible materials

Strong oxidizing agents, strong acids, acid anhydrides, halogenated compounds

10.6 Hazardous decomposition products

Thermal decomposition products include oxides of carbon.

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity LD₅₀, rat: >5,045 mg/kg

Acute inhalation toxicity LC₅₀, rat: 37.5 mg/l, 4 h; vapor

Acute dermal toxicity LD₅₀, rabbit: >12,800 mg/kg

Skin irritation May cause mild skin irritation.

Eye irritation

Causes serious eye irritation.

Sensitization

No data available

Genotoxicity in vitro No data available

Mutagenicity

No data available

Specific organ toxicity - single exposure May cause respiratory irritation, drowsiness or dizziness.

Specific organ toxicity - repeated exposure No data available

Aspiration hazard No data available

11.2 Further information

Isopropanol (CAS #67-63-0): IARC, Group 3 carcinogen - Not classifiable as to its carcinogenicity to humans. Not listed as a carcinogen by ACGIH, NTP or OSHA.

No data is available regarding the mutagenicity or teratogenicity of this product, nor is there any available data that indicates it causes adverse developmental or fertility effects.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity

Large spills or discharges of this material may be harmful to aquatic life.

Toxicity to fish:	LC ₅₀ - Pimephales promelas (fathead minnow), 96 h: 9,640 mg/l
Toxicity to aquatic invertebrates:	EC ₅₀ - Daphnia magna (water flea), 48 h: 13,299 mg/l
Toxicity to aquatic plants:	IC ₅₀ - Desmodesmus subspicatus (green algae), 72 h: 1,000 mg/l
Toxicity to micro-organisms:	EC5 - Pseudomonas putida (bacteria), 16 h: 1,050 mg/l
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12.2 Persistence and degradability This product is readily biodegradable.

12.3 Bioaccumulation potential

This material will not bioaccumulate.

12.4 Mobility in soil

Mobility in soil is high and may cause contamination of ground water.

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other effects

Additional ecological information

Do not allow material to run into surface waters, wastewater or soil.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Methods of disposal: The generation of waste should be avoided or minimized whenever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

RCRA F-Series: No listings above the reportable threshold (de minimis) **RCRA U-Series:** No listings above the reportable threshold (de minimis)

SECTION 14 – TRANSPORTATION INFORMATION

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

Limited quantity for flammable liquids Packing Group II when inner packagings are not over 1.0 liters (0.3 gallons) net capacity each, packed in a strong outer packaging.

USA DOT (Ground Transportation) - Bu Proper Shipping Name Hazard Class UN/NA Packing Group NEAREG Packaging Authorization Packaging Exceptions	Ilk and Non-bulk Isopropanol 3 UN1219 II Guide #129 Non-Bulk: 49 CFR 173.202; Bulk: 173.242 49 CFR 173.150	Drum Label(s) FLAMMABLE
IMO/IMDG (Water Transportation) Proper Shipping Name Hazard Class UN/NA Packing Group Marine Pollutant EMS Number	Isopropanol 3 UN1219 II No F-E, S-D	
ICAO/IATA (Air Transportation) Proper Shipping Name Hazard Class UN/NA Packing Group Quantity Limitations RID/ADR (Rail Transportation) Proper Shipping Name Hazard Class UN/NA Packing Group	Isopropanol 3 UN1219 II 49 CFR 175.27 and 175.75 - Cargo Aircraft Only: 60 l; Passenger Aircraft: 5 l Isopropanol 3 UN1219 II	

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for substance or mixture

U. S. Federal Regulations

OSHA Hazard Communication Standard: This material is classified as hazardous in accordance with OSHA 29 CFR 1910-1200.

OSHA Process Safety Management Standard: This product is not regulated under OSHA PSM Standard 29 CFR 1910.119.

EPA Risk Management Planning Standard: This product is not regulated under EPA RMP Standard (RMP) 40 CFR Part 68.

EPA Federal Insecticide, Fungicide and Rodenticide Act: This product is not a registered Pesticide under the FIFRA, 40 CFR Part 150.

Toxic Substance Control Act (TSCA) Inventory: All substances in this product are listed on the TSCA Inventory. This product is not subject to TSCA 12(b) Export Notification.

Drug Enforcement Administration (DEA) List 2, Essential Chemicals (21 CFR 1310.02(b)) and 1310.4(f)(2)) and Chemical Code Number Not listed

Drug Enforcement Administration (DEA) Lists 1 & 2, Exempt Chemical Mixtures (21 CFR 1310.12(c)) and Code Number: Not listed

Department of Homeland Security (DHS) Chemical Facility Anti-Terrorism Standards (CFATS) Chemicals: Not listed

Superfund Amendments and Reauthorization Act (SARA)

SARA Section 311/312 Hazard Categories

Highly flammable liquid and vapor Causes serious eye damage May cause drowsiness or dizziness

SARA 313 Information: Isopropanol (CAS #67-63-0) is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to Know Act of 1986.

SARA 302/304 Extremely Hazardous Substance: None of the components of the product exceed the threshold (de minimis) reporting levels of established by these sections of Title III of SARA.

SARA 302/304 Emergency Planning & Notification: None of the components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

Comprehensive Response Compensation and Liability Act (CERCLA): This product does not contain any CERCLA reportable substances.

Clean Air Act (CAA)

This product does not contain Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b). This product does not contain Class 1 Ozone depletors. This product does not contain Class 2 Ozone depletors.

Clean Water Act (CWA)

This product does not contain Hazardous Substances. This product does not contain Priority Pollutants. This product does not contain Toxic Pollutants.

U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

This product contains no chemical(s) known to the state of California to cause cancer birth defects or reproductive harm in concentrations that exceed the threshold (de minimis) reporting levels established under Proposition 65.

Other U.S. State Inventories

Isopropanol (CAS #67-63-0) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists: CA, DE, ID, ME, MA, MN, NJ, NY, PA, RI, WA, WI.

<u>Canada</u>

WHMIS Hazard Classification

Highly flammable liquid and vapor Causes serious eye irritation May cause drowsiness or dizziness

Canadian National Pollutant Release Inventory (NPRI): Isopropanol (CAS #67-63-0) is listed on the NPRI.

European Economic Community

WGK, Germany (Water danger/protection): 1 (low hazard to waters)

Global Chemical Inventory Lists

Country	Inventory Name	Listed
Canada	Domestic Substance List (DSL)	Yes
Canada	Non-Domestic Substance List (NDSL)	No
Europe	Inventory of New and Existing Chemicals (EINECS)	Yes
United States	Toxic Substance Control Act (TSCA)	Yes
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
New Zealand	New Zealand Inventory of Chemicals (NZIoC)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (KECI)	Yes
Philippines	Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Yes

*Yes - All components of this product comply with the inventory requirements administered by the governing country.

No - One or more components of this product are not on the inventory or are exempt from listing.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16 - OTHER INFORMATION

Hazardous Material Information System (HMIS) National Fire Protection Association (NFPA) Flammability HEALTH 2 HMIS Hazard Rating Legend 0 = Minimal 1 = Slight 2 = Moderate FLAMMABILITY 3 3 = Serious 4 = Severe PHYSICAL HAZARD 0 * = Chronic Health Hazard Health Instability NFPA Hazard Rating Legend PERSONAL PROTECTION С 0 = Insignificant 1 = Slight 2 = Moderate C = safety glasses, gloves 3 = High 4 = Extreme and an apron Special

Abbreviation Key

ACGIH	American Conference of Governmental Industrial Hygienists	LDLo	Lowest Lethal Dose
ADR	Accord Dangereux Routier (European regulations concerning	mppcf	Millions of Particles Per Cubic Foot
	the international transport of dangerous goods by road)		
CAS	Chemical Abstract Services	NA	North America
CFR	Code of Federal Regulations	NAERG	North American Emergency Response Guide Book
COC	Cleveland Open Cup	NIOSH	National Institute for Occupational Safety & Health
DOT	Department of Transportation	NTP	National Toxicology Program
EC ₅₀	Half maximal effective concentration	OSHA	Occupational Safety and Health Administration
EMS	Emergency Response Procedures for Ships Carrying	PBT	Persistent, Bioaccumulating and Toxic
EPA	Environmental Protection Agency	PEL	Permissible exposure limit
ErC ₅₀	Reduction of Growth Rate	PMCC	Pensky-Martens Closed Cup
ERG	Emergency Response Guide Book	ppm	Parts Per Million
FDA	Food and Drug Administration	RCRA	Resource Conservation and Recovery Act
GHS	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)	RID	Dangerous Goods by Rail
HCS	Hazard Communication Standard	RQ	Reportable Quantity
IARC	International Agency for Research on Cancer	TCC/Tag	Tagliabue Closed Cup
ΙΑΤΑ	International Air Transport Association	TLV	Threshold Limit Value
IC ₅₀	Half Maximal Inhibitory Concentration	TSCA	Toxic Substance Control Act
ICAO	International Civil Aviation Organization	TWA	Time-weighted Average
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IDLH	Immediately Dangerous to Life and Health	UN	United Nations
IMDG	International Maritime Dangerous Goods	VOC	Volatile Organic Compounds
IMO	International Maritime Organization	vPvB	Very Persistent and Very Bioaccumulating
LC ₅₀	50% Lethal Concentration	WHMIS	Workplace Hazardous Materials Information System
LD ₅₀	50% Lethal Dose		

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