SDS No.: 1X0230

9236 SAFETY DATA SHEET

KINO 06 35 FLAMMABLE STORAGE CODE RED

and Company Identification

901 Janesville Ave PO Box 901 Fort Alkinson, WI 53538-0901 **CHEMTREC 24 Hour Emergency** Phone Number (800) 424-9300 For laboratory use only Not for drug, food or household use

Product

ISOPROPYL ALCOHOL, 70% SOLUTION

Synonyma

2-Propagal 70% Isporppagal Water Solution

Section 2

Hazarde Identification

Signal word: DANGER Pictograms: GHS02 / GHS07

Target organs: Central pervous system, Liver, Kidneys



GHS Classification: Flammable liquid (Category 2) Eye imitation (Category 2) STOT-SE (Category 3)

GHS Label information, Hazard statement(s): H225 Highly flammable liquid and vapour H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness

Precautionary statement(s):

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking

P233 Keep container tightly closed
P240 Ground/bond container and receiving equipment

P241 Use explosion-proof electrical/ventilating/lighting equipment P242. Use only non-sparking tools

P243 Take precautionary measures against static discharge

P261 Avoid breathing mist/vapours/spray
P264 Wash hands thoroughly after handling

P271: Use only outdoors or in a well-ventilated area P280. Wear protective gloves/protective dothing/eye protection/face protection P303+P361+P353. If ON SKIN (or hair). Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED, Remove person to fresh air and keep comfortable for

breathing. P305+P351+P338. IF IN EYES Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do Continue rinsing P312 Call a POISON CENTER or doctor if you feel unwell

P337-P313 If eye irritation persists. Get medical attention

P370+P378 In case of fire. Use dry chemical, alcohol foam, carbon dioxide or water

P403+P235. Store in a well-veritilated place. Keep cool

P405 Store locked up
P501 Dispose of contents/container to a licensed chemical disposal agency in

accordance with local/regional/national regulations

Ca Prop 65. This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity

Section 3	Composition / Information on Ingradients		
Chemical Name	CAS N	%	EINECS
Isopropy! alcohol Water	57-63-0 7732-18-5	70% 30%	200-561-7 231-791-2

Section 4 First Aid Measures

INGESTION: MAY BE HARMFUL IF SWALLOWED Call physician or Poison Control Ceriter immediately. Induce verniting only if advised by appropriate medical personnel

INHALATION: MAY BE HARMFUL IF INHALED CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh pill If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention

EYE CONTACT: CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN MAY CAUSE SKIN IRRITATION Remove contaminated digiting. Flush thoroughly with mild scap and water. If irritation occurs, get medical attention

Section 6 Fire Fighting Measures

Sultable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam-

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool

Specific Hazards: Dunng a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors formed from this product are heavier than air and irray travel along the ground to a distant source of ignition and flush back instantly. Flame riney not be visible in daylight.

Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as Indicated in Section B. Provide adequate vanitiation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways

Containment and Cleanup: Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water

Hendling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8 Exposure Controls / Personal Protection

Exposure Limits: Isopropanol

Chemical Name

ACGIH (TLV) TWA 200 ppm / STEL 400 ppm

Evaporation rate (Butyl acetate = 1): >1

Solubility(ies): Complete in water

Flammability (solid/gas): Data not available

OSHA (PEL)

NIOSH (REL)

Partition coefficient: (n-octanol / water). Date not available

Auto-Ignition temperature: 399°C (750°F) ASTM-E659-78 [Pure IPA]

Decomposition temperature: Data not available

Viscosity: Data not available

Molecular formu la: Mixture Molecular weight: Mixture

TVVA 400 ppm / 880 mg/m³ TVVA 400 ppm / STEL 500 ppm Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel

should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriato protective gloves. Use adequate ventilation to keep airborne concentrations low Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in furne hood or wear a NIOSHIMSHA-

Section 9 Physical & Chemical Properties

Appearance: Clear, coloriess liquid

Chemical stability: Stable

Odor: Aromatic odor.
Odor threshold: Data not available. pH; Data not available

Melting / Freezing point: Approximately -50°C (-58°F)
Boiling point: Approximately 85-100°C (185-212°F)

Flash point: 21,7°C (71°F) TCC

Stability & Reactivity

Hazardous polymerization: Will not occur Conditions to avoid: Excessive temperatures, heat, sparks, open flame and other sources of ignition

Explosion limits: Lower Upper: 2% / 12% [Pure IPA]
Vapor pressure (mm Hg): 33 mm @20°C [Pure IPA]
Vapor density (Air = 1): 2.1 [Pure IPA]
Relative density (Specific gravity): 08

Incompatible materials: Strong oxidizing materials, caustics, aluminitims, metals, nitroform, pleum, chlorinated compounds can react vigorously with this alcohol.

Hazardous decomposition products: Oxides of carbon

Section 11 Taxicological Information

Acute toxicity: Oral-ral LD50, 4396 mg/kg , inhalation-rat LC50, 72.6 mg/L/4 hours | Dermal-rat LD50, 12,000 mg/kg

Skin corrosion/irritation: Skin-rabbit - Slight irritant Serious eye damage/irritation: Eyes-rabbit - Irritating

Respiratory or akin sensitization: Not sensitizing
Germ cell mutagenicity: Data not available
Carcinogenity: Data not available
NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP
IARC classified Group 3: Not classifiable as to its carcinogenicity to humans

OSHA. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity: Date not available

STOT-single exposure: The substance or mixture is classified as specific larget organ toxicant, single exposure, category 3 with narcotic effects

STOT-repeated exposure: Data not available

Aspiration hazard: Yes Potential health effects:

Inhalation Inhalation of high vapor concentrations may cause central nervous system depression resulting in dizziness, drowsiness, nausea, vomiting, inability to concentrate

and irritation of the throat. Continued inhalation may result in unconsciousness and death Ingestion. Aspiration hazard. Liquid can directly enter the lungs (aspirated) when swallowed or vomited. Serious lung damage and possible fatal chemical pneumonia can

Skin: Prolonged or repeated contact may cause irritation and drying, cracking and defatting of the skin which can lead to dermatilis

Eyes Contact causes burning sensation redness swelling and/or blurred vision. Signs and symptoms of exposure: See Potential health effects above

Additional information: RTECS #: NT8050000 [Isopropanol]

Ecological Information

Toxicity to fish: Pimephales prometas (Fish, fresh water) LC50, 9640 mg/L/96 hours [Isopropanol]

Toxicity to daphnia and other aquatic invertebrates: Artemia salina (Crustacea), EC50 = >10,000 mg/L/24 hours [isopropanol]

Toxicity to algae: Scenedesmus quadricauda (Algae). LOEC50 = 1,800 mg/L/7 days [laopropanol]

Persistence and degradability: No data available

Bloaccumulative potential: No data available

PBT and vPvB assessment: No data available

Mobility in soil: No data available Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

UN/NA number: UN1219

Section 14 Transport Information (US DOT / CANADA TDG)

Hazard class: 3

Shipping name: Isopropanol solution Packing group: II

Reportable Quantity: No 2016 ERG Guide # 129

Section 15 Regulatory Information

Exceptions: Limited quantity equal to or less than 1 L.

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component

TSCA CERLCA (RQ)

RCRA code

DSL

NDSL

Isopropyl alcohol

Listed

Not listed

Not listed

Section 16 Other Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a suppliament to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to escure proper use of these materials and the sefety and health of employees. NTP. National Turciology Program LARC Informational Agency for Research on Cantain, OSHA. Occupational Safety and Health Administration, STOT. Specific Target Organ Toxicity, SE. Single Exposure. RE. Repeated Exposure. RE. Repeated Exposure.

Form 06/2015

Revision Date: February 8, 2017

Supercedes: June 1, 2016

Marine pollutant: No