

SAFETY DATA SHEET

WWT 1902s Water Treatment

Section 1. Identification

GHS product identifier	:	WWT 1902s Water Treatment
Other means of identification	:	Water Treatment
Product use	:	Not available.
Product type	:	Liquid.
Manufacturer	:	Jacam Manufacturing 2013, L.L.C. P.O.Box 208, 1656 Ave. Q. Sterling, Kansas 67579
Validation date	:	6/30/2016.
<u>For Chemical Emergency</u> <u>Spill, Leak Fire, Exposure or</u> <u>Accident:</u>	:	Call CHEMTREC Day or Night Within USA and Canada 800-424-9300 CCN# 11754 Or +1 703-527-3887 (Collect calls accepted) Direct all other calls to: Jacam Chemicals 2013, L.L.C. 620-278-3355
Supplier's details	:	Mon – Fri 8 a.m. to 5 p.m. (Closed on major holidays) Jacam Chemicals 2013, L.L.C. P.O. Box 96, 205 S. Broadway Sterling, Kansas 67579

Section 2. Hazards identification

Classification of the substance or mixture

: AMMABLE LIQUIDS - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 69.1%

GHS label elements

Date of issue/Date of revision

6/30/2016.

Section 2. Hazards identification

Hazard pictograms	
Signal word	: Warning
Hazard statements	 Flammable liquid and vapor. H319 - Causes serious eye irritation.
Precautionary statement	<u>s</u>
General	 P103 - Read label before use. P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand.
Prevention	 1 280 - Wear protective gloves: > 8 hours (breakthrough time): nitrile rubber. Wear eye or face protection: Recommended: chemical splash goggles. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P233 - Keep container tightly closed. P264 - Wash hands thoroughly after handling.
Response	 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Obtain medical attention.
Storage	: 12403 - Store in a well-ventilated place. P235 - Keep cool.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.
Routes of entry	: Dermal contact. Eye contact. Inhalation.
	INGESTION: Although not a normal route of entry, ingestion is expected to be harmful. DO NOT TAKE INTERNALLY. FOR INDUSTRIAL USE ONLY.
Target organs	: Contains material which may cause damage to the following organs: blood, kidneys, liver, spleen, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Water Treatment
identification	

CAS number/other	<u>identifiers</u>

CAS number : Not applicable.

```
Date of issue/Date of revision
```

6/30/2016.

Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
Kopropyl alcohol	10 - 30	67-63-0
Proprietary	5 - 10	Proprietary

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present 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.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. If irritation persists, obtain medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If adverse health effects persist or are severe, obtain medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. If irritation or symptoms persists, obtain medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. If adverse health effects persist or are severe, obtain medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects	
Eye contact	: Causes serious eye irritation.
Inhalation	: Irritation of respiratory tract, chest discomfort, mucous membrane irritation, coughing, difficulty breathing, Central Nervous System depression, pneumonitis, pulmonary edema.
Skin contact	: May cause severe irritation Harmful if absorbed through the skin.
Ingestion	: Irritating to mouth, throat and stomach.
Over-exposure signs/sympto	<u>ms</u>

Section 4. First aid measures

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness lack of oxygen collapse, coma, and death
Skin contact	: Adverse symptoms may include the following: Severe erythema Blistering may occur absorption
Ingestion	: Adverse symptoms may include the following: Central Nervous System depression
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	■ No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/ gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Additional Vapor Statement	: Not available.
	Not available.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxide

Section 5. Fire-fighting measures

Special protective actions	: Promptly isolate the scene by removing all persons from the vicinity of the incident
for fire-fighters	if there is a fire. No action shall be taken involving any personal risk or without
	suitable training. Move containers from fire area if this can be done without risk.
	Use water spray to keep fire-exposed containers cool.
Special protective	: Fire-fighters should wear appropriate protective equipment and self-contained
equipment for fire-fighters	breathing apparatus (SCBA) with a full face-piece operated in positive pressure
	mode.

Section 6. Accidental release measures

Personal precautions, protec	tiv	e equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	onta	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non- combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal

Section 7. Handling and storage

Precautions for safe ha	ndling
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non- sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Date of issue/Date of revision	6/30/2016. People + Products → Performance [™] Version : 2.03

Date of issue/Date of revision 6/30/2016.	People + Products 🔶 Performance [™]	Version	1
---	--	---------	---

Section 7. Handling and storage

Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities		Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in accordance with all local, regional, national and international regulations. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Jeopropanol	ACGIH TLV (United States, 4/2014). TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes. OSHA PEL 1989 (United States, 3/1989). TWA: 400 ppm 8 hours. TWA: 980 mg/m ³ 8 hours. STEL: 500 ppm 15 minutes. STEL: 1225 mg/m ³ 15 minutes. NIOSH REL (United States, 10/2013). TWA: 400 ppm 10 hours. TWA: 980 mg/m ³ 10 hours.
	STEL: 500 ppm 15 minutes. STEL: 1225 mg/m ³ 15 minutes. OSHA PEL (United States, 2/2013). TWA: 400 ppm 8 hours. TWA: 980 mg/m ³ 8 hours.
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measu	res
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Date of issue/Date of revision

Section 8. Exposure controls/personal protection

Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles Recommended: chemical splash goggles
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): nitrile rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Recommended: overall safety apron
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: nitrile rubber
Respiratory protection	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Personal protective equipment (Pictograms)	

Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid. [Clear.]
Color	: Colorless.
Odor	: Alcohol-like.
Odor threshold	: Not available.
рН	: 7 to 8
Melting point	: Not available.
Boiling point	: 82.222°C (180°F)
Flash point	: Closed cup: 26.667°C (80°F) [Pensky-Martens.]
Evaporation rate	: Not available.
Flammability (solid, gas)	: Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: >1 [Air = 1]
Relative density	: 0.95 to 0.99
Date of issue/Date of revision 6	/30/2016. People + Products

Section 9. Physical and chemical properties

Density	: 7.84 to 8.1 (lbs/gal)
Solubility	: Easily soluble in the following materials: cold water.
Partition coefficient: n-octanol/ water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicologica	al effects				
Acute toxicity					
Product/ingredient name	Result	Specie	s	Dose I	Exposure
sopropanol	LD50 Dermal	Rabbit		12800 mg/kg -	
	LD50 Oral	Rat		5000 mg/kg -	
Proprietary	LD50 Dermal	Rabbit		900 mg/kg -	
	LD50 Oral	Rat		1102 mg/kg	
Irritation/Corrosion					
Product/ingredient name	Result	Species	Score	Exposure	Observation
Sopropanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams) _
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	3 -
	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-

Section 11. Toxicological information

	- J	_					
<u>Sensitization</u>							
Product/ingredient name	Route of exposure	Speci	es	Res	ult		
Not available.							
<u>Mutagenicity</u>							
Product/ingredient name	Test		Experiment		Resu	ult	
Not available.							
Carcinogenicity							
Product/ingredient name	Result		Species	Dose	•	Ехро	sure
Not available.							
Classification							
Product/ingredient name			OSHA	IARC	NTP		
sopropanol			-	3	-		
Reproductive toxicity							
Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species		Dose	Exposure
Not available.							
Teratogenicity							
Product/ingredient name	Result		Species	D	ose	E	Exposure
Not available.							
Specific target organ toxic	ity (single ex	<u>posure)</u>					
Name			Category		te of osure	Tar	get organs
Not available.							
Specific target organ toxic	ity (repeated	<u>exposure)</u>					
Not available.							
Aspiration hazard							
Name				Result			
Not available.							

Information on the likely ToxKinetics - routes of exposure	:	Routes of entry anticipated: Dermal, Inhalation.	
Potential acute health effe	<u>cts</u>		
Eye contact	:	Causes serious eye irritation.	
Inhalation	:	Irritation of respiratory tract, chest discomfort, mucous coughing, difficulty breathing, Central Nervous System pulmonary edema.	
Date of issue/Date of revision	6/30/2	<i>16.</i> People + Products → Performance [™]	Version : 2.03

Section 11. Toxicological information

_			0
	Skin contact	:	May cause severe irritation Harmful if absorbed through the skin.
	Ingestion	:	ritating to mouth, throat and stomach.
	Symptoms related to the physical	sic	al, chemical and toxicological characteristics
	Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
	Inhalation	:	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness lack of oxygen collapse, coma, and death
	Skin contact	:	Adverse symptoms may include the following: Severe erythema Blistering may occur absorption
	Ingestion	:	Adverse symptoms may include the following: Central Nervous System depression

Delayed and immediate effects and also chronic effects from short and long term exposure

<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	fects

Not available.

General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route		ATE value	
Øral Dermal		2894.4 mg/k 4376.1 mg/k	•
Date of issue/Date of revision	6/30/2016.	People + Products → Performance [™]	Version : 2.03

Section 11. Toxicological information

Section 12. Ecological information

Product/ingredient name	Result	Species		Exposure
Sopropanol	Acute LC50 1400000 μg/l Marine water Acute LC50 1400000 μg/l	Crustaceans Fish - Gamb	- Crangon crangon	48 hours 96 hours
Proprietary	Acute EC50 0.35 ppm Fresh water		aphnia magna	48 hours
Conclusion/Summary	: Not available.			
Persistence and degradabi	lity			
Not available.				
Product/ingredient name				
Not available.				
Product/ingredient name				
Not available.				
Bioaccumulative potential				
Product/ingredient name		LogPow	BCF	Potentia
		0.05		low

<u>Mobility in soil</u>	
Soil/water partition coefficient (Koc)	: Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly
Date of issue/Date of revision	6/30/2016. People + Products → Performance [™] Version : 2.03

Page: 12/16

Section 13. Disposal considerations

internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

Regulatory information	UN/NA Number	Proper shipping name	Hazard I Class(es)	PG*
DOT Classification	on		PG* : Packir	ng group
	UN1993	FLAMMABLE LIQUID, N.O.S. (Isopropanol)	3	III

Additional information

Emergency Response Guide (ERG):128





TDG Classification Ш 3 UN1993 FLAMMABLE LIQUID, N.O.S. (Isopropanol) **Additional information** Label **IMDG Class** UN1993 FLAMMABLE LIQUID, N.O.S. (Isopropanol) 3 Ш Not available. Marine pollutant notes: **Additional information** _ People + Products 亲 Performance** Version Date of issue/Date of revision 6/30/2016. : 2.03

Section 14. Transport information



IATA-DGR Class

UN1	993 FI	LAMMABLE LIQUID, N.O.S. (Isopropanol)	3	III

Additional information



Section 15. Regulatory information

U.S. Federal regulations	: TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	All components are listed or exempted.
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
SARA 302/304	
Composition/information or	<u>ingredients</u>
No products were found.	
SARA 304 RQ :	Not applicable.
SARA 311/312	
	: Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard

Composition/information on ingredients

Section 15. Regulatory information

Name	%	Fire hazard	Sudden release of pressure		(acute) health	Delayed (chronic) health hazard
Isopropyl alcohol	10 - 30	Yes.	No.	No.	Yes.	Yes.
Proprietary	10 - 30	No.	No.	No.	Yes.	No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Isopropanol	67-63-0	10 - 30
Supplier notification	Isopropanol	67-63-0	10 - 30

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Date of issue/Date of revision	a 6/30/2016. People + Products → Performance" Version : 2.03
Canada	 At least one component is not listed in DSL but all such components are listed in NDSL.
Australia	: All components are listed or exempted.
National invento	ry .
Canada inventory International lists	
CEPA Toxic subs	
(Pollution Rele	ease)
Canadian NPRI	: The following components are listed: Isopropyl alcohol
<u>Canadian lists</u>	Class D-2B: Material causing other toxic effects (Toxic).
	Class D-1B: Material causing immediate and serious toxic effects (Toxic).
WHMIS (Canada)	: Class B-2: Flammable liquid
Canada	
Not listed.	otocor on r or s and heavy metals
	rotocol on POPs and Heavy Metals
Not listed.	
	ntion on Prior Inform Consent (PIC)
Not listed.	
Stockholm Conve	ention on Persistent Organic Pollutants
Not listed.	
Montreal Protocol	(Annexes A, B, C, E)
Not listed.	
	<u>n Convention List Schedules I, II & III Chemicals</u>
International regula	
New Jersey Pennsylvania	 The following components are listed: ISOPROPYL ALCOHOL; 2-PROPANOL The following components are listed: 2-PROPANOL
New York	: None of the components are listed.
Massachusetts	: The following components are listed: ISOPROPYL ALCOHOL

Section 15. Regulatory information

China	1	Not determined.
Europe	1	All components are listed or exempted.
Japan	1	Not determined.
Malaysia	1	Not determined.
New Zealand	1	Not determined.
Philippines	1	Not determined.
Republic of Korea	1	Not determined.
Taiwan	1	Not determined.

Section 16. Other information

National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

<u>Normal Package Size(s):</u>	Ball: 2" Ball 50/Cooler; 4" Ball 12/Cooler Dry Product: 50 Lbs/Box Liquid: 5 Gallon/55 Gallon/Bulk Pellets: 30 Lbs/Cooler; 24 Lbs/Pail Stix: 1 1/4": 50 Each/Cooler			
<u>History</u>				
Date of issue/Date of revision		6/30/2016.		
<u>Versio</u>	<u>n</u> :	2.03		
Date of previous issue	:	11/16/2015.		
Previous Validation Dat	e :	11/16/2015.		
Prepared by	:	Jacam Regulatory Department		
(M)SDS Requests:	:	SDS@jacam.com		
Key to abbreviations	BCF = Bio GHS = Glo IATA = Int IBC = Inte IMDG = In LogPow = MARPOL	ute Toxicity Estimate concentration Factor obally Harmonized System of Classification and Labelling of Chemicals ternational Air Transport Association rmediate Bulk Container ternational Maritime Dangerous Goods logarithm of the octanol/water partition coefficient 73/78 = International Convention for the Prevention of Pollution From Ships, nodified by the Protocol of 1978. ("Marpol" = marine pollution)		

Date of issue/Date of revision	6/30/2016.	People + Products 🗢 Performance [™]	Version : 2.03	

Section 16. Other information

References

UN = United Nations Not available.

Indicates information that has changed from previously issued version.

Notice to reader

This Safety Data Sheet ("SDS") is a mandatory disclosure pursuant to 29 CFR § 1910.1200 and related rules and regulations. Therefore, it is not intended, nor shall it serve to create, any rights, obligations, liabilities, and remedies, of any kind whatsoever, between Jacam Chemicals 2013, LLC and related entities ("Jacam") and any users of this SDS ("Users").

To the extent that a court of competent jurisdiction determines that this SDS creates any rights, obligations, liabilities, and remedies, of any kind whatsoever, notwithstanding the foregoing paragraph, Users accept the product AS IS and WITH ALL FAULTS. Further, Jacam DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Users' sole and exclusive remedies shall be (if any), in Jacam's sole and absolute discretion, either: (1) return of the product and repayment of the purchase price; or (2) repair/replacement of the product. In no event shall Jacam be liable for any damages of any kind whatsoever, including but not limited to, actual, compensatory, reliance, expectancy, foreseeable, future, statutory, incidental, consequential, and exemplary damages. Users assume any and all risks of any kind whatsoever that in any way relate to the product.

*** END OF SDS ***