

SAFETY DATA SHEET

WCS 2237w

Section 1. Identification

GHS product identifier : WCS 2237w

Other means of identification

: Corrosion/Scale Inhibitor

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 : 6/23/2017

For Chemical Emergency
Spill, Leak Fire, Exposure or

Accident:

: Call CHEMTREC Day or Night

Within USA and Canada 800-424-9300 Or +1 703-527-3887 (Collect calls accepted)

Direct all other calls to:

Jacam Chemicals 2013, L.L.C. 620-278-3355

Mon - Fri 8 a.m. to 5 p.m. (Closed on major holidays)

Supplier's details : 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

: FLAMMABLE LIQUIDS - Category 3
ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (inhalation) - Category 4

ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central

nervous system (CNS) and kidneys) - Category 2

WCS 2237w Page: 2/18

Section 2. Hazards identification

GHS label elements

Hazard pictograms







Signal word : Warning

Hazard statements : ▶226 - Flammable liquid and vapor.

H302 + H332 - Harmful if swallowed or if inhaled.

H319 - Causes serious eye irritation.

H315 - Causes skin irritation.

H373 - May cause damage to organs through prolonged or repeated exposure.

(central nervous system (CNS), kidneys)

Precautionary statements

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 : P280 - Wear protective gloves. Wear eye or face protection.

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.

P271 - Use only outdoors or in a well-ventilated area.

P260 - Do not breathe vapor.

P270 - Do not eat, drink or smoke when using this product.

P264 - Wash hands thoroughly after handling.

Response : P314 - Obtain medical attention if you feel unwell.

P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel

P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water or shower.

P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water.

Take off contaminated clothing and wash it before reuse.

P332 + P313 - If skin irritation occurs: Obtain medical attention.

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.

: P403 - Store in a well-ventilated place.

P235 - Keep cool.

: P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Hazards not otherwise

classified

Storage

Disposal

: None known.

Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.

INGESTION: Although not a normal route of entry, ingestion is expected to be harmful. DO NOT TAKE INTERNALLY. FOR INDUSTRIAL USE ONLY.

Date of issue/Date of revision

6/23/2017

People + Products

Performance™

Version :

: 1.04

WCS 2237w Page: 3/18

Section 2. Hazards identification

Target organs

: Contains material which causes damage to the following organs: upper respiratory tract, central nervous system (CNS).

Contains material which may cause damage to the following organs: kidneys, heart, gastrointestinal tract, skin, eye, lens or cornea.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Corrosion/Scale Inhibitor

CAS number/other identifiers

CAS number : Not applicable.

Ingredient name	%	CAS number
Methanol	10 - 30	67-56-1
Ethylene Glycol	10 - 30	107-21-1
Poly Phosphonic Acid	10 - 30	32685-03-3
Quaternary ammonium compounds	1 - 5	68607-28-3

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 it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. Obtain medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. 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

: Mush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 15 minutes. If irritation persists, obtain medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

WCS 2237w Page: 4/18

Section 4. First aid measures

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 irritation persists, obtain medical attention. If necessary, call a poison center or physician. 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: Harmful if inhaled.Skin contact: Causes skin irritation.Ingestion: Harmful if swallowed.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

Considia	4		4 14			
Specific	tardet	ordan	TOXICITY	(Single	exposure)	

Name Category Route of Target organs

exposure

Not available.

Specific target organ toxicity (repeated exposure)

Name Category Route of Target organs exposure

Ethylene Glycol Category 2 Oral central

nervous system (CNS) and kidneys

Aspiration hazard

Name Result

Not available.

Indication of immediate medical 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.

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 6/23/2017
 People + Products ⇒ Performance ⋄ Version : 1.04

WCS 2237w Page: 5/18

Section 4. First aid measures

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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, CO2, 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.

carbon monoxide

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident 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 equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective 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 containment and cleaning up

WCS 2237w Page: 6/18

Section 6. Accidental release measures

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 noncombustible, 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 handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. 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 nonsparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

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.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. 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. 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

WCS 2237w Page: 7/18

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
Methanol	ACGIH TLV (United States, 4/2014).
	Absorbed through skin.
	TWA: 200 ppm 8 hours.
	TWA: 262 mg/m³ 8 hours.
	STEL: 250 ppm 15 minutes.
	STEL: 328 mg/m³ 15 minutes.
	OSHA PEL 1989 (United States, 3/1989).
	Absorbed through skin.
	TWA: 200 ppm 8 hours.
	TWA: 260 mg/m³ 8 hours.
	STEL: 250 ppm 15 minutes.
	STEL: 325 mg/m³ 15 minutes.
	NIOSH REL (United States, 10/2013).
	Absorbed through skin.
	TWA: 200 ppm 10 hours.
	TWA: 260 mg/m³ 10 hours.
	STEL: 250 ppm 15 minutes.
	STEL: 325 mg/m³ 15 minutes.
	OSHA PEL (United States, 2/2013).
	TWA: 200 ppm 8 hours.
	TWA: 260 mg/m ³ 8 hours.
Ethylene Glycol	ACGIH TLV (United States, 4/2014).
	C: 100 mg/m³ Form: Aerosol
	OSHA PEL 1989 (United States, 3/1989).
	CEIL: 50 ppm
	CEIL: 125 mg/m³

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 measures

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.

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

Skin protection

6/23/2017

WCS 2237w Page: 8/18

Section 8. Exposure controls/personal 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.

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.

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.

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 : ✓quid. [Clear.]

Color : ✓ale straw colored

Odor : Fungent.
Odor threshold : Not available.

pH : 5 to 6

Melting point : -40°C (-40°F)

Boiling point : Not available.

Flash point : Closed cup: 24.444°C (76°F) [Pensky-Martens.]

Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure: Not available.Vapor density: >1 [Air = 1]Relative density: ▼ to 104

Density : **8**.34 to 8.68 (lbs/gal)

Solubility : Easily soluble in the following materials: cold water.

Partition coefficient: n-octanol/ : Not available.

water

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

WCS 2237w Page: 9/18

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

Product/ingredient name	Result	Species	Dose	Exposure
Methanol	LC50 Inhalation Gas.	Rat	145000 ppm	1 hours
	LC50 Inhalation Gas.	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	_
	LD50 Oral	Rat	5600 mg/kg	_
Ethylene Glycol	LD50 Oral	Rat	4700 mg/kg	-
Poly Phosphonic Acid	LD50 Dermal	Rat - Male	866 mg/kg	-
, ,	LD50 Oral	Rat	2140 mg/kg	-
Quaternary ammonium	LD50 Dermal	Rat	2001 mg/kg	_
compounds			3 3	
•	LD50 Oral	Rat	1310 mg/kg	_

Product/ingredient name	Result	Species	Score	Exposure	Observation
Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	40 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
Ethylene Glycol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	1 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	6 hours 1440 milligrams	-
	Skin - Mild irritant	Rabbit	-	555 milligrams	-
Quaternary ammonium compounds	Eyes - Cornea opacity	Rabbit	3	3 minutes	14 days
	Skin - Visible necrosis	Rabbit	_	3 minutes	14 days

WCS 2237w Page: 10/18

Section 11. Toxicological information

Sensitization

Product/ingredient name Route of Species Result

exposure

Not available.

Mutagenicity

Not available.

Carcinogenicity

Product/ingredient name Result Species Dose Exposure

Not available.

Product/ingredient name

Not available.

Reproductive toxicity

Product/ingredient name Maternal Fertility Development Species Dose Exposure

toxicity toxin

Not available.

Teratogenicity

Product/ingredient name Result Species Dose Exposure

Not available.

Specific target organ toxicity (single exposure)

Name Category Route of Target organs

exposure

Not available.

Specific target organ toxicity (repeated exposure)

Name Category Route of Target organs

exposure

Ethylene Glycol Category 2 Oral central

al central nervous

system (CNS) and kidneys

Name Result

Not available.

Aspiration hazard

Information on the likely ToxKinetics - routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact : Causes serious eye irritation.

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 6/23/2017
 People + Products ⇒ Performance™
 Version
 : 1.04

WCS 2237w Page: 11/18

Section 11. Toxicological information

 Inhalation
 : Harmful if inhaled.

 Skin contact
 : ✓auses skin irritation.

 Ingestion
 : Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:

pain or irritation

watering

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

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

Short term exposure

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General: May cause damage to organs through prolonged or repeated exposure.

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	
Ø ral	331 mg/kg	
Dermal	5994.9 mg/kg	
Inhalation (vapors)	11.78 mg/l	

WCS 2237w Page: 12/18

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Methanol	Acute EC50 16.912 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 100 mg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
Ethylene Glycol	Acute LC50 100000 μg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 10000000 μg/l Fresh water Acute LC50 8050000 μg/l Fresh water	Daphnia - Daphnia magna Fish - Pimephales promelas	48 hours 96 hours

Conclusion/Summary : Not available.

Persistence and degradability

Not available.

Product/ingredient name

Not available.

Product/ingredient name

Not available.

Bioaccumulative potential			
Product/ingredient name	LogPow	BCF	Potential
Methanol Ethylene Glycol	-0.77 -1.36	<10 -	low low

Mobility in soil

Soil/water partition coefficient (K_{oc})

: Not available.

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

Section 13. Disposal considerations

WCS 2237w Page: 13/18

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

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS#	Status	Reference number
Methanol (I); Methyl alcohol (I)	67-56-1	Listed	U154

Section 14. Transport information

Regulatory information	UN/NA Number	Proper shipping name	Hazard PG* Class(es)

DOT Classification PG* : Packing group

UN1993 FLAMMABLE LIQUID, N.O.S. (Methanol) RQ (Methanol, 3 III Ethylene Glycol)

Additional information

Emergency Response Guide (ERG): 128

Reportable quantity

19630.2 lbs / 8912.1 kg [2308.2 gal / 8737.3 L]

Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

Label



TDG

Classification

UN1993 FLAMMABLE LIQUID, N.O.S. (Methanol) 3 III

Additional information

WCS 2237w Page: 14/18

Section 14. Transport information

Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2. 18-2.19 (Class 3).

Label



IMDG Class

UN1993 FLAMMABLE LIQUID, N.O.S. (Methanol)

Not available.

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Marine pollutant notes:

Additional information

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Label



IATA-DGR Class

UN1993 FLAMMABLE LIQUID, N.O.S. (Methanol)

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Additional information

Label

ı



Section 15. Regulatory information

U.S. Federal regulations : TSCA 4(a) proposed test rules: Quaternary ammonium compounds

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Not determined.

Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs)

: Listed

Clean Air Act Section 602

Class I Substances

: Not listed

People + Products ⇒ Performance™ Version : 1.04

WCS 2237w Page: 15/18

Section 15. Regulatory information

Clean Air Act Section 602

Class II Substances

: Not listed

DEAList Chamicals

DEA List I Chemicals (Precursor Chemicals)

: Not listed

DEA List II Chemicals

DEA List II Chemicals (Essential Chemicals)

: Not listed

SARA 302/304

Composition/information on ingredients

			SARA 302 TPQ		SARA 304	RQ
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
€ thylene Glycol	10 - 30	Yes.	10000	1061.4	-	-

SARA 304 RQ

: Not applicable.

SARA 311/312

Classification

: Fire hazard

Immediate (acute) health hazard Delayed (chronic) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Methanol	10 - 30	Yes.	No.	No.	Yes.	Yes.
Ethylene Glycol	10 - 30	No.	No.	No.	Yes.	Yes.
Poly Phosphonic Acid	10 - 30	No.	No.	No.	Yes.	No.
Quaternary ammonium compounds	1 - 5	No.	No.	No.	Yes.	No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Methanol	67-56-1	10 - 30
	Ethylene Glycol	107-21-1	10 - 30
Supplier notification	Methanol	67-56-1	10 - 30
	Ethylene Glycol	107-21-1	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.

State regulations

Massachusetts : The following components are listed: METHANOL; ETHYLENE GLYCOL

New York : The following components are listed: Methanol; Ethylene glycol

New Jersey: The following components are listed: METHYL ALCOHOL; METHANOL; ETHYLENE GLYCOL; 1,2-ETHANEDIOL; ETHYL ALCOHOL; ALCOHOL

TO THE STATE OF TH

Pennsylvania : The following components are listed: METHANOL; 1,2-ETHANEDIOL; DENATURED

ALCOHOL

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

WCS 2237w Page: 16/18

Section 15. Regulatory information

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Methanol	No.	Yes.	No.	23000 μg/day (ingestion) 47000 μg/day (inhalation)

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Canadian lists

Canadian NPRI : The following components are listed: Methanol; Ethylene glycol

(Pollution Release)

CEPA Toxic substances • None of the components are listed.

Canada inventory-DSL / NDSL . Not determined.

International lists

National inventory

Australia : Not determined.

Canada : Not determined.

China : Not determined.

Europe : Not determined.

Japan : Not determined.

Malaysia : Not determined.

New Zealand : Not determined.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : Not determined.

Section 16. Other information

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



WCS 2237w Page: 17/18

Section 16. Other information

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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.

Normal Package Size(s): 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

History

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SDS Requests: : SDS@jacam.com

Key to abbreviations : ATE = Acute Toxicity Estimate

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BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

References : Not available.

Indicates information that has changed from previously issued version.

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WCS 2237w Page: 18/18

Section 16. Other information

*** END OF SDS ***