

# SAFETY DATA SHEET



## ARIES® Extraction Kit

### Section 1. Identification

<b>Product identifier</b>	: ARIES® Extraction Kit
<b>Product code</b>	:
<b>Other means of identification</b>	: Not available.
<b>Product type</b>	: Liquid.
<b>Identified uses</b>	: For Professional use only. Use as per Product Insert.
<b>Supplier's details</b>	: Luminex Corporation 12212 Technology Blvd Austin, Texas 78727 Tel: 1-512-381-4397 Toll free: 1-877-785-2323 (US and Canada) Fax: 1-512-219-5114 <a href="http://www.luminexcorp.com">http://www.luminexcorp.com</a>
<b>e-mail address of person responsible for this SDS</b>	: Support@Luminexcorp.com
<b>Emergency telephone number (with hours of operation)</b>	: 1-512-381-4397 24/7

### Section 2. Hazards identification

<b>Classification of the substance or mixture</b>	: <b>Plug 1</b> <b>Plug 2</b>	Not classified. FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3
	: <b>Plug 3</b>	FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3
	: <b>Plug 4</b> <b>Wash 1</b>	ACUTE TOXICITY (oral) - Category 4 FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3
	: <b>Wash 2</b> <b>Elution</b>	Not classified. Not classified.



## Section 2. Hazards identification

### GHS label elements, including precautionary statements

Hazard pictograms :



Signal word :

Danger

**The hazards in this SDS are present, but given the extremely small quantities in this product, the hazards may be less severe.**

Hazard statements :

H225 - Highly flammable liquid and vapour.

### Precautionary statements

**Prevention** :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P241 - Use explosion-proof electrical, ventilating or lighting equipment.  
 P242 - Use non-sparking tools.  
 P243 - Take action to prevent static discharges.  
 P233 - Keep container tightly closed.

**Response** :

Not applicable.

**Storage** :

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

**Disposal** :

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Other hazards which do not result in classification** : None known.

## Section 3. Composition/information on ingredients

Substance/mixture :

Mixture

Other means of identification :

Not available.

Ingredient name	%	CAS number
<b>Plug 2</b> Isopropyl alcohol	≥90	67-63-0
<b>Plug 3</b> Isopropyl alcohol	80 - 100	67-63-0
<b>Plug 4</b> Guanidinium thiocyanate Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	≥50 - <55 ≥3 - ≤5	593-84-0 9002-93-1
<b>Wash 1</b> Isopropyl alcohol Guanidinium thiocyanate	≥25 - ≤50 ≥5 - ≤10	67-63-0 593-84-0

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

<b>Eye contact</b>	: Not applicable.
<b>Inhalation</b>	: Not applicable.
<b>Skin contact</b>	: Not applicable.
<b>Ingestion</b>	: Not applicable.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: <b>Plug 1</b>	No known significant effects or critical hazards.
	<b>Plug 2</b>	Causes serious eye irritation.
	<b>Plug 3</b>	Causes serious eye irritation.
	<b>Plug 4</b>	No known significant effects or critical hazards.
	<b>Wash 1</b>	Causes serious eye irritation.
	<b>Wash 2</b>	No known significant effects or critical hazards.
	<b>Elution</b>	No known significant effects or critical hazards.
<b>Inhalation</b>	: <b>Plug 1</b>	No known significant effects or critical hazards.
	<b>Plug 2</b>	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
	<b>Plug 3</b>	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
	<b>Plug 4</b>	No known significant effects or critical hazards.
	<b>Wash 1</b>	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
	<b>Wash 2</b>	No known significant effects or critical hazards.
	<b>Elution</b>	No known significant effects or critical hazards.
<b>Skin contact</b>	: <b>Plug 1</b>	No known significant effects or critical hazards.
	<b>Plug 2</b>	No known significant effects or critical hazards.
	<b>Plug 3</b>	No known significant effects or critical hazards.
	<b>Plug 4</b>	No known significant effects or critical hazards.
	<b>Wash 1</b>	No known significant effects or critical hazards.
	<b>Wash 2</b>	No known significant effects or critical hazards.
	<b>Elution</b>	No known significant effects or critical hazards.
<b>Ingestion</b>	: <b>Plug 1</b>	No known significant effects or critical hazards.
	<b>Plug 2</b>	Can cause central nervous system (CNS) depression.
	<b>Plug 3</b>	Can cause central nervous system (CNS) depression.
	<b>Plug 4</b>	Harmful if swallowed.
	<b>Wash 1</b>	Can cause central nervous system (CNS) depression.
	<b>Wash 2</b>	No known significant effects or critical hazards.
	<b>Elution</b>	No known significant effects or critical hazards.

### Over-exposure signs/symptoms

<b>Eye contact</b>	: No known significant effects or critical hazards.
<b>Inhalation</b>	: No known significant effects or critical hazards.
<b>Skin contact</b>	: No known significant effects or critical hazards.
<b>Ingestion</b>	: No known significant effects or critical hazards.

### Indication of immediate medical attention and special treatment needed, if necessary

<b>Notes to physician</b>	: None identified.
<b>Specific treatments</b>	: No specific treatment.

## Section 4. First aid measures

**Protection of first-aiders** : No special measures required.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

**Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

**Specific hazards arising from the chemical** : Highly flammable liquid and vapour.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
sulfur oxides

**Special protective actions for fire-fighters** : 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** : 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** : No special requirements.

### Methods and material for containment and cleaning up

**Spill** : Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8).

**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. See also Section 8 for additional information on hygiene measures.

## Section 7. Handling and storage

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Please store at 15°C to 30°C upon receipt.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
<b>Plug 2</b> Isopropyl alcohol	<b>Workplace Safety and Health Act (Singapore, 2/2006).</b> PEL (long term): 400 ppm 8 hours. PEL (long term): 983 mg/m <sup>3</sup> 8 hours. PEL (short term): 1230 mg/m <sup>3</sup> 15 minutes. PEL (short term): 500 ppm 15 minutes.
<b>Plug 3</b> Isopropyl alcohol	<b>Workplace Safety and Health Act (Singapore, 2/2006).</b> PEL (long term): 400 ppm 8 hours. PEL (long term): 983 mg/m <sup>3</sup> 8 hours. PEL (short term): 1230 mg/m <sup>3</sup> 15 minutes. PEL (short term): 500 ppm 15 minutes.
<b>Wash 1</b> Isopropyl alcohol	<b>Workplace Safety and Health Act (Singapore, 2/2006).</b> PEL (long term): 400 ppm 8 hours. PEL (long term): 983 mg/m <sup>3</sup> 8 hours. PEL (short term): 1230 mg/m <sup>3</sup> 15 minutes. PEL (short term): 500 ppm 15 minutes.

**Appropriate engineering controls** : No special ventilation requirements.

**Environmental exposure controls** : No special measures required.

### Individual protection measures

**Hygiene measures** : Follow good industrial hygiene practice.

**Eye/face protection** : Not required under normal conditions of use.

#### Skin protection

**Hand protection** : Not required under normal conditions of use.

**Body protection** : Not required under normal conditions of use.

**Other skin protection** : Not required under normal conditions of use.

**Respiratory protection** : Not required under normal conditions of use.

## Section 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	: <b>Plug 1</b>	Liquid.
	<b>Plug 2</b>	Liquid.
	<b>Plug 3</b>	Liquid.
	<b>Plug 4</b>	Liquid.
	<b>Wash 1</b>	Liquid.
	<b>Wash 2</b>	Liquid.
	<b>Elution</b>	Liquid.

## Section 9. Physical and chemical properties

<b>Colour</b>	<b>: Plug 1</b>	Colourless.
	<b>Plug 2</b>	Colourless.
	<b>Plug 3</b>	Colourless.
	<b>Plug 4</b>	Colourless.
	<b>Wash 1</b>	Colourless.
	<b>Wash 2</b>	Colourless.
	<b>Elution</b>	Colourless.
<b>Odour</b>	<b>: Plug 1</b>	Odourless.
	<b>Plug 2</b>	Odourless.
	<b>Plug 3</b>	Odourless.
	<b>Plug 4</b>	Odourless.
	<b>Wash 1</b>	Odourless.
	<b>Wash 2</b>	Odourless.
	<b>Elution</b>	Odourless.
<b>Odour threshold</b>	<b>: Not available.</b>	
<b>pH</b>	<b>: Plug 1</b>	Not available.
	<b>Plug 2</b>	Not available.
	<b>Plug 3</b>	Not available.
	<b>Plug 4</b>	Not available.
	<b>Wash 1</b>	Not available.
	<b>Wash 2</b>	Not available.
	<b>Elution</b>	Not available.
<b>Melting point</b>	<b>: Not available.</b>	
<b>Boiling point</b>	<b>: Not available.</b>	
<b>Flash point</b>	<b>: Plug 1</b>	Not available.
	<b>Plug 2</b>	Closed cup: 11.7°C (53.1°F)
	<b>Plug 3</b>	Closed cup: 11.7°C (53.1°F)
	<b>Plug 4</b>	Not available.
	<b>Wash 1</b>	Closed cup: 21°C (69.8°F)
	<b>Wash 2</b>	Not available.
	<b>Elution</b>	Not available.
<b>Evaporation rate</b>	<b>: Plug 1</b>	Not available.
	<b>Plug 2</b>	Not available.
	<b>Plug 3</b>	Not available.
	<b>Plug 4</b>	Not available.
	<b>Wash 1</b>	Not available.
	<b>Wash 2</b>	Not available.
	<b>Elution</b>	Not available.
<b>Flammability (solid, gas)</b>	<b>: Not available.</b>	
<b>Lower and upper explosive (flammable) limits</b>	<b>: Not available.</b>	
<b>Vapour pressure</b>	<b>: Not available.</b>	
<b>Vapour density</b>	<b>: Not available.</b>	
<b>Relative density</b>	<b>: Plug 1</b>	Not available.
	<b>Plug 2</b>	Not available.
	<b>Plug 3</b>	Not available.
	<b>Plug 4</b>	Not available.
	<b>Wash 1</b>	Not available.
	<b>Wash 2</b>	Not available.
	<b>Elution</b>	Not available.
<b>Solubility</b>	<b>: Not available.</b>	
<b>Solubility in water</b>	<b>: Not available.</b>	

## Section 9. Physical and chemical properties

- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : Not available.
- Flow time (ISO 2431)** : 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 pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
- Incompatible materials** : Reactive or incompatible with the following materials: oxidising materials.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- SADT** : Not available.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>Plug 2</b> Isopropyl alcohol	LD50 Dermal LD50 Oral	Rabbit Rat	12800 mg/kg 5000 mg/kg	- -
<b>Plug 3</b> Isopropyl alcohol	LD50 Dermal LD50 Oral	Rabbit Rat	12800 mg/kg 5000 mg/kg	- -
<b>Plug 4</b> Poly(oxy-1,2-ethanediy), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	LD50 Oral	Rat	1800 mg/kg	-
<b>Wash 1</b> Isopropyl alcohol	LD50 Dermal LD50 Oral	Rabbit Rat	12800 mg/kg 5000 mg/kg	- -

#### Irritation/Corrosion

## Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>Plug 2</b> Isopropyl alcohol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
<b>Plug 3</b> Isopropyl alcohol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
<b>Plug 4</b> Poly(oxy-1,2-ethanediyl), α- [4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	Eyes - Moderate irritant	Rabbit	-	24 hours 10 µL	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 µL	-
<b>Wash 1</b> Isopropyl alcohol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-

### Sensitisation

There is no data available.

### Mutagenicity

There is no data available.

### Carcinogenicity

There is no data available.

### Reproductive toxicity

There is no data available.

### Teratogenicity

There is no data available.

### Specific target organ toxicity (single exposure)

Name	Category	Target organs
<b>Plug 2</b> Isopropyl alcohol	Category 3	Narcotic effects
<b>Plug 3</b> Isopropyl alcohol	Category 3	Narcotic effects
<b>Wash 1</b> Isopropyl alcohol	Category 3	Narcotic effects

### Specific target organ toxicity (repeated exposure)

There is no data available.

### Aspiration hazard

There is no data available.

**Information on likely routes of exposure** : Dermal contact. Eye contact. Inhalation. Ingestion.

### Potential acute health effects





## Section 11. Toxicological information

<b>Eye contact</b>	<b>:</b>	<b>Plug 1</b>	No known significant effects or critical hazards.
		<b>Plug 2</b>	Causes serious eye irritation.
		<b>Plug 3</b>	Causes serious eye irritation.
		<b>Plug 4</b>	No known significant effects or critical hazards.
		<b>Wash 1</b>	Causes serious eye irritation.
		<b>Wash 2</b>	No known significant effects or critical hazards.
		<b>Elution</b>	No known significant effects or critical hazards.
<b>Inhalation</b>	<b>:</b>	<b>Plug 1</b>	No known significant effects or critical hazards.
		<b>Plug 2</b>	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
		<b>Plug 3</b>	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
		<b>Plug 4</b>	No known significant effects or critical hazards.
		<b>Wash 1</b>	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
		<b>Wash 2</b>	No known significant effects or critical hazards.
		<b>Elution</b>	No known significant effects or critical hazards.
<b>Skin contact</b>	<b>:</b>	<b>Plug 1</b>	No known significant effects or critical hazards.
		<b>Plug 2</b>	No known significant effects or critical hazards.
		<b>Plug 3</b>	No known significant effects or critical hazards.
		<b>Plug 4</b>	No known significant effects or critical hazards.
		<b>Wash 1</b>	No known significant effects or critical hazards.
		<b>Wash 2</b>	No known significant effects or critical hazards.
		<b>Elution</b>	No known significant effects or critical hazards.
<b>Ingestion</b>	<b>:</b>	<b>Plug 1</b>	No known significant effects or critical hazards.
		<b>Plug 2</b>	Can cause central nervous system (CNS) depression.
		<b>Plug 3</b>	Can cause central nervous system (CNS) depression.
		<b>Plug 4</b>	Harmful if swallowed.
		<b>Wash 1</b>	Can cause central nervous system (CNS) depression.
		<b>Wash 2</b>	No known significant effects or critical hazards.
		<b>Elution</b>	No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Eye contact</b>	<b>:</b>	No known significant effects or critical hazards.
<b>Inhalation</b>	<b>:</b>	No known significant effects or critical hazards.
<b>Skin contact</b>	<b>:</b>	No known significant effects or critical hazards.
<b>Ingestion</b>	<b>:</b>	No known significant effects or critical hazards.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

<b>Potential immediate effects</b>	<b>:</b>	No known significant effects or critical hazards.
<b>Potential delayed effects</b>	<b>:</b>	No known significant effects or critical hazards.

#### Long term exposure

<b>Potential immediate effects</b>	<b>:</b>	No known significant effects or critical hazards.
<b>Potential delayed effects</b>	<b>:</b>	No known significant effects or critical hazards.

#### Potential chronic health effects



## Section 11. Toxicological information

<b>General</b>	: No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Teratogenicity</b>	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
<b>Plug 4</b> Oral Dermal Inhalation (vapours)	924.4 mg/kg 2067.67 mg/kg 20.68 mg/L
<b>Wash 1</b> Oral Dermal Inhalation (vapours)	7692.31 mg/kg 16923.08 mg/kg 169.23 mg/L

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
<b>Plug 2</b> Isopropyl alcohol	Acute EC50 7550 mg/L Fresh water Acute LC50 1400000 µg/L Marine water Acute LC50 4200 mg/L Fresh water	Daphnia - Daphnia magna - Neonate Crustaceans - Crangon crangon Fish - Rasbora heteromorpha	48 hours 48 hours 96 hours
<b>Plug 3</b> Isopropyl alcohol	Acute EC50 7550 mg/L Fresh water Acute LC50 1400000 µg/L Marine water Acute LC50 4200 mg/L Fresh water	Daphnia - Daphnia magna - Neonate Crustaceans - Crangon crangon Fish - Rasbora heteromorpha	48 hours 48 hours 96 hours
<b>Plug 4</b> Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	Acute LC50 5.85 mg/L Fresh water  Acute LC50 11.2 mg/L Fresh water Acute LC50 4500 µg/L Fresh water	Crustaceans - Ceriodaphnia rigaudi - Neonate  Daphnia - Daphnia magna - Neonate Fish - Pimephales promelas	48 hours  48 hours 96 hours
<b>Wash 1</b> Isopropyl alcohol	Acute EC50 7550 mg/L Fresh water Acute LC50 1400000 µg/L Marine water Acute LC50 4200 mg/L Fresh water	Daphnia - Daphnia magna - Neonate Crustaceans - Crangon crangon Fish - Rasbora heteromorpha	48 hours 48 hours 96 hours

### Persistence/degradability

There is no data available.

### Bioaccumulative potential

## Section 12. Ecological information

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>Plug 2</b> Isopropyl alcohol	0.05	-	low
<b>Plug 3</b> Isopropyl alcohol	0.05	-	low
<b>Wash 1</b> Isopropyl alcohol	0.05	-	low

### Mobility in soil




**Soil/water partition coefficient (K<sub>oc</sub>)** : No data 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 minimised wherever possible. No specific disposal consideration.

## Section 14. Transport information

	UN	IMDG	IATA
<b>UN number</b>	UN1219	UN1219	UN1219
<b>UN proper shipping name</b>	ISOPROPYL ALCOHOL solution	ISOPROPYL ALCOHOL solution	ISOPROPYL ALCOHOL solution
<b>Transport hazard class(es)</b>	3 	3 	3 
<b>Packing group</b>	II	II	II
<b>Environmental hazards</b>	No.	No.	No.

### Additional information

**IMDG** : **Emergency schedules** F-A, S-P  
**Remarks** Limited Quantity Exemption

**IATA** : **Remarks** Limited Quantity Exemption

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Section 15. Regulatory information

[Singapore - hazardous chemicals under government control](#)

None.

## Section 16. Other information

[Procedure used to derive the classification](#)

Classification	Justification
<b>Plug 2</b> FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3	On basis of test data Calculation method Calculation method
<b>Plug 3</b> FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3	On basis of test data Calculation method Calculation method
<b>Plug 4</b> ACUTE TOXICITY (oral) - Category 4	Calculation method
<b>Wash 1</b> FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3	On basis of test data Calculation method Calculation method

### History

**Date of issue** : 2020/06/15  
**Date of previous issue** : 2018/08/15  
**Version** : 2  
**Prepared by** : KMK Regulatory Services Inc.

**Key to abbreviations** : ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonised 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 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 UN = United Nations

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

