# **SAFETY DATA SHEET**



# Electro-Wash Two-Step

Section 1. Identi	fication
GHS product identifier	: Electro-Wash Two-Step
Product code	: ES125A
Other means of	: ES125A
identification	Degreasers Cleaning solutions.
Product type	: Liquid.
Relevant identified uses o	f the substance or mixture and uses advised against
Not applicable.	
Supplier's details	: Chemtronics
	8125 Cobb Center Drive Kennesaw, GA 30152
	Tel. 770-424-4888 or toll free 800-645-5244
Emergency telephone	: Chemtrec - 1-800-424-9300 or collect 703-527-3887
number (with hours of operation)	24/7
Section 2. Hazar	ds identification
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2A
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 60%
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: Combustible liquid. Causes serious eye irritation.
Precautionary statement	
Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from flames and hot surfaces No smoking. Wash hands thoroughly after handling.
Response	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	: Store in a well-ventilated place. Keep cool.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Hazards not otherwise	: None known.

classified

# Section 3. Composition/information on ingredients

#### Substance/mixture Other means of

identification

: Mixture

: ES125A

Degreasers Cleaning solutions.

Ingredient name	%	CAS number
	≥25 - ≤50 ≥25 - ≤50	34590-94-8 872-50-4

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** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower Eye contact eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If Inhalation 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. Get medical attention if adverse health effects persist or are severe. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. 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. Get medical attention if adverse health effects persist or are severe. 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 : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. **Skin contact** : Slightly irritating to the skin. : Do not ingest. If swallowed then seek immediate medical assistance. Ingestion **Over-exposure signs/symptoms** Eye contact : Adverse symptoms may include the following: pain or irritation watering redness Inhalation : No specific data.

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# Section 4. First aid measures

Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: Adverse symptoms may include the following: Ingestion Seek medical attention.
Indication of immediate med	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>
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 <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Combustible liquid. 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.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
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, protec	<u>tiv</u>	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 specialized 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

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# 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 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 handling

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. 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.
Conditions for safe storage, including any incompatibilities	: 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**

Ingredient name		Exposure limits
(2-methoxymethylethoxy)propanol		ACGIH TLV (United States, 3/2015).
		Absorbed through skin.
		STEL: 909 mg/m <sup>3</sup> 15 minutes.
		STEL: 150 ppm 15 minutes.
		TWA: 606 mg/m <sup>3</sup> 8 hours.
		TWA: 100 ppm 8 hours.
		NIOSH REL (United States, 10/2013).
		Absorbed through skin.
		STEL: 900 mg/m <sup>3</sup> 15 minutes.
		STEL: 150 ppm 15 minutes.
		TWA: 600 mg/m <sup>3</sup> 10 hours.
		TWA: 100 ppm 10 hours.
		OSHA PEL (United States, 2/2013).
		Absorbed through skin.
		TWA: 600 mg/m <sup>3</sup> 8 hours.
		TWA: 100 ppm 8 hours.
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# Section 8. Exposure controls/personal protection

		OSHA PEL 1989 (United States, 3/1989).
		Absorbed through skin.
		STEL: 900 mg/m <sup>3</sup> 15 minutes.
		STEL: 150 ppm 15 minutes.
		TWA: 600 mg/m <sup>3</sup> 8 hours.
		TWA: 100 ppm 8 hours.
N-methyl-2-pyrrolidone		AIHA WEEL (United States, 10/2011).
		Absorbed through skin.
		TWA: 10 ppm 8 hours.
Appropriate engineering	: Use only with adequate ventilation.	Use process enclosures, local exhaust ventilation o
controls		worker exposure to airborne contaminants below any
	recommended or statutory limits. T	he engineering controls also need to keep gas,
		any lower explosive limits. Use explosion-proof
	ventilation equipment.	
Environmental exposure	: Emissions from ventilation or work	process equipment should be checked to ensure
controls	they comply with the requirements	of environmental protection legislation. In some
	cases, fume scrubbers, filters or en	gineering modifications to the process equipment
	will be necessary to reduce emissic	ons to acceptable levels.
ndividual protection measu	ures	
Hygiene measures		oroughly after handling chemical products, before
Hygiene measures		tory and at the end of the working period.
		used to remove potentially contaminated clothing.
		e reusing. Ensure that eyewash stations and safety
	showers are close to the workstatio	
Eye/face protection		approved standard should be used when a risk
-,		sary to avoid exposure to liquid splashes, mists,
		le, the following protection should be worn, unless
		degree of protection: chemical splash goggles.
Skin protection		
Hand protection		ves complying with an approved standard should be
		emical products if a risk assessment indicates this is
	necessary. Considering the param	eters specified by the glove manufacturer, check
		etaining their protective properties. It should be
		for any glove material may be different for different
		of mixtures, consisting of several substances, the
	protection time of the gloves canno	-
Body protection	: Personal protective equipment for t	he body should be selected based on the task being
	performed and the risks involved ar	nd should be approved by a specialist before
	handling this product.	
Other skin protection		ional skin protection measures should be selected
Other skin protection	: Appropriate footwear and any addit	ional skin protection measures should be selected and the risks involved and should be approved by a
Other skin protection	: Appropriate footwear and any addit	and the risks involved and should be approved by a
Other skin protection Respiratory protection	: Appropriate footwear and any addit based on the task being performed specialist before handling this production	and the risks involved and should be approved by a
	<ul> <li>Appropriate footwear and any addit based on the task being performed specialist before handling this produce</li> <li>Based on the hazard and potential</li> </ul>	and the risks involved and should be approved by a uct.
	<ul> <li>Appropriate footwear and any addit based on the task being performed specialist before handling this produce</li> <li>Based on the hazard and potential appropriate standard or certification</li> </ul>	and the risks involved and should be approved by a uct. for exposure, select a respirator that meets the

# Section 9. Physical and chemical properties

Date of issue/Date of revision	: 10/3/2017	Date of previous issue	: No previous validation	Version : 1	5/12
Melting point	: Not availa	: Not available.			
рН	Not available.				
Odor threshold	: Not availa	able.			
Odor	: Characte	ristic.			
Color	: Colorless				
Physical state	: Liquid.				
Appearance					

# Section 9. Physical and chemical properties

-		
Boiling point	: Not available.	
Flash point	: 67 C	
Evaporation rate	: <1 (butyl acetate = 1)	
Flammability (solid, gas)	: Not available.	
Lower and upper explosive (flammable) limits	: Not available.	
Vapor pressure	: Not available.	
Vapor density	: >1 [Air = 1]	
Relative density	: Not available.	
Solubility	: Not available.	
Solubility in water	: Not available.	
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 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 toxicological effects

Acute toxicity				
Product/ingredient name	Result	Species	Dose	Exposure
N-methyl-2-pyrrolidone	LD50 Dermal LD50 Oral	Rabbit Rat	8 g/kg 3914 mg/kg	-

Irritation/Corrosion

# Section 11. Toxicological information

	0				
Product/ingredient name	Result	Species	Score	Exposure	Observation
(2-methoxymethylethoxy) propanol	Eyes - Mild irritant	Human	-	8 milligrams	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
N-methyl-2-pyrrolidone	Eyes - Moderate irritant	Rabbit	-	100 milligrams	-

### **Sensitization**

Not available.

### **Mutagenicity**

Not available.

### **Carcinogenicity**

Not available.

### **Reproductive toxicity**

Not available.

### **Teratogenicity**

Not available.

# Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure) Not available.

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# Aspiration hazard

Not available.

### Information on the likely : Not available. routes of exposure

# Potential acute health effects

Eye contact	:	Causes serious eye irritation.
Inhalation	1	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	;	Slightly irritating to the skin.
Ingestion	1	Do not ingest. If swallowed then seek immediate medical assistance.

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

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	: Adverse symptoms may include the following: Ingestion Seek medical attention.

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

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# Section 11. Toxicological information

		0
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
Long term exposure		
Potential immediate effects	1	Not available.
Potential delayed effects	1	Not available.
Potential chronic health eff	ect	<u>s</u>
Not available.		
General	:	No known significant effects or critical hazards.
Carcinogenicity	1	No known significant effects or critical hazards.
Mutagenicity	1	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
<b>Developmental effects</b>	:	No known significant effects or critical hazards.
Fertility effects	1	No known significant effects or critical hazards.

### Numerical measures of toxicity

### Acute toxicity estimates

Route	ATE value
Oral	6262.4 mg/kg

# Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
5 1 5	Acute LC50 1.23 to 1.5 ppm Fresh water Acute LC50 832 ppm Fresh water		48 hours 96 hours

### Persistence and degradability

Not available.

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
(2-methoxymethylethoxy)	0.004	-	low
N-methyl-2-pyrrolidone	-0.46	-	low

### Mobility in soil

Soil/water partition: Not available.coefficient (Koc)

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

# Section 14. Transport information

	DOT	TDG	Mexico	ADR/RID	IMDG	ΙΑΤΑ
	Classification	Classification	Classification			
UN number	Not regulated.					
UN proper shipping name	Cleaning Compound, n.o.i.	Cleaning Compound, n.o.i.	Cleaning Compound, n.o.i.	Cleaning Compound, n.o.i.	Cleaning Compound, n.o.i.	Cleaning Compound, n.o.i.
Transport hazard class(es)	-	-	-	-	-	-
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-	-

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.

Transport in bulk according : Not available. to Annex II of MARPOL and the IBC Code

# Section 15. Regulatory information

U.S. Federal regulations	TSCA 8(a)	) PAIR: (2-methoxymethyl ) CDR Exempt/Partial ex ates inventory (TSCA 8b	emption: Not determined		
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				
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# Section 15. Regulatory information

DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed

#### SARA 302/304

**Composition/information on ingredients** 

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

Classification

: Fire hazard

Immediate (acute) health hazard

### **Composition/information on ingredients**

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
(2-methoxymethylethoxy) propanol	≥25 - ≤50	Yes.	No.	No.	Yes.	No.
N-methyl-2-pyrrolidone	≥25 - ≤50	Yes.	No.	No.	Yes.	No.

### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	N-methyl-2-pyrrolidone	872-50-4	≥25 - ≤50
Supplier notification	N-methyl-2-pyrrolidone	872-50-4	≥25 - ≤50

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	<ul> <li>The following components are listed: DIPROPYLENE GLYCOL METHYL ETHER; 1-METHYL-2-PYRROLIDONE</li> </ul>
New York	: None of the components are listed.
New Jersey	<ul> <li>The following components are listed: DIPROPYLENE GLYCOL METHYL ETHER; (2-METHOXYMETHYLETHOXY) PROPANOL; 1-METHYL-2-PYRROLIDONE; 2-PYRROLIDINONE, 1-METHYL-</li> </ul>
Pennsylvania	<ul> <li>The following components are listed: PROPANOL, (2-METHOXYMETHYLETHOXY)-;</li> <li>2-PYRROLIDINONE, 1-METHYL-</li> </ul>

### California Prop. 65

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

Ingredient name	Cancer		No significant risk level	Maximum acceptable dosage level
N-methyl-2-pyrrolidone	No.	Yes.		3200 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

Date of issue/Date of revision : 10/3/2017

# Section 15. Regulatory information

Not listed.

# Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

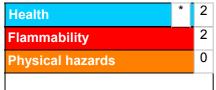
Not listed.

### International lists

National inventory	
Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Europe	: All components are listed or exempted.
Japan	<ul> <li>Japan inventory (ENCS): All components are listed or exempted.</li> <li>Japan inventory (ISHL): Not determined.</li> </ul>
Malaysia	: Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Turkey	: All components are listed or exempted.

# Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

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



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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.

#### Procedure used to derive the classification

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# Section 16. Other information

	Justification		
FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2A		On basis of test data Calculation method	
History			
Date of printing	: 10/3/2017		
Date of issue/Date of revision	: 10/3/2017		
Date of previous issue	: No previous validation		
Version	: 1		
Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate 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</li> </ul>		
References	: Not available.		

Indicates information that has changed from previously issued version.

### 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.