# **SAFETY DATA SHEET**



#### Pen Precision Cleaner 2 NA

Section 1. Identification				
GHS product identifier	: Pen Precision Cleaner 2 NA			
Product code	: 75 20 5			
Other means of identification	: Laboratory Samples			
Product type	Liquid.			
Relevant identified uses of Not applicable.	the substance or mixture and uses advised against			
Supplier's details	: Chemtronics 8125 Cobb Center Drive Kennesaw, GA 30152			
	Tel. 770-424-4888 or toll free 800-645-5244			
Emergency telephone number (with hours of operation)	: Chemtrec - 1-800-424-9300 or collect 703-527-3887 24/7			
Section 2. Hazard	ds identification			
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).			
Classification of the	: FLAMMABLE LIQUIDS - Category 2			
substance or mixture	EYE IRRITATION - Category 2A Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 75%			
GHS label elements				
Hazard pictograms				
Signal word	: Danger			
Hazard statements	: Highly flammable liquid and vapor. Causes serious eye irritation.			
Precautionary statements				
Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Wash hands thoroughly after handling.			
Response	: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. 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	: Dispose of contents and container in accordance with all local, regional, national and international regulations.			
Hazards not otherwise classified	: None known.			

### Section 3. Composition/information on ingredients

#### Substance/mixture

# Other means of identification

- : Mixture
- : Laboratory Samples

Ingredient name	%	CAS number
propan-1-ol	≥10 - ≤21	71-23-8
Isopropyl alcohol	≤4.9	67-63-0

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** 

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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 10 minutes. Get 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. 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.		
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			

Most important symptoms/effects, acute and delayed				
Potential acute health effects				
Eye contact :	Causes serious eye irritation.			
Inhalation :	Harmful by inhalation. At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.			
Skin contact :	Irritating to skin.			
Ingestion :	Irritating to mouth, throat and stomach.			
Over-exposure signs/sympton	<u>ns</u>			
Eye contact :	Adverse symptoms may include the following: pain or irritation watering redness			
Inhalation :	Adverse symptoms may include the following: dizziness/vertigo drowsiness/fatigue headache unconsciousness			

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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: Irritating to mouth, throat and stomach. nausea or vomiting
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</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	: Highly 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.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
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 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. 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.
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	
propan-1-ol			ACGIH TLV (United States, 3/2015).	
			TWA: 100 ppm 8 hours.	
			NIOSH REL (United States, 10/2013).	
			Absorbed through skin.	
			STEL: 625 mg/m <sup>3</sup> 15 minutes.	
			STEL: 250 ppm 15 minutes.	
			TWA: 500 mg/m <sup>3</sup> 10 hours.	
			TWA: 200 ppm 10 hours.	
			OSHA PEL (United States, 2/2013).	
			TWA: 500 mg/m <sup>3</sup> 8 hours.	
			TWA: 200 ppm 8 hours.	
			OSHA PEL 1989 (United States, 3/1989)	-
			STEL: 625 mg/m <sup>3</sup> 15 minutes.	
			STEL: 250 ppm 15 minutes.	
			TWA: 500 mg/m <sup>3</sup> 8 hours.	
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# Section 8. Exposure controls/personal protection

	TWA: 200 ppm 8 hours.
Isopropyl alcohol	ACGIH TLV (United States, 3/2015).
	STEL: 400 ppm 15 minutes.
	TWA: 200 ppm 8 hours.
	NIOSH REL (United States, 10/2013).
	STEL: 1225 mg/m <sup>3</sup> 15 minutes.
	STEL: 500 ppm 15 minutes.
	TWA: 980 mg/m <sup>3</sup> 10 hours.
	TWA: 400 ppm 10 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 980 mg/m <sup>3</sup> 8 hours.
	TWA: 400 ppm 8 hours.
	OSHA PEL 1989 (United States, 3/1989).
	STEL: 1225 mg/m <sup>3</sup> 15 minutes.
	STEL: 500 ppm 15 minutes.
	TWA: 980 mg/m <sup>3</sup> 8 hours.
	TWA: 400 ppm 8 hours.

Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation of 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 meas	<u>ires</u>	
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. Ensure that eyewash stations and safety showers are close to the workstation location.	
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		
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** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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# Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid.
Color	: Colorless.
Odor	: Alcohol-like.
Odor threshold	: Not available.
рН	: Not available.
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: CLOSED CUP: 7°C (44.6°F).
Evaporation rate	: 1.6 (butyl acetate = 1)
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: 4.8 kPa (36 mm Hg) [room temperature]
Vapor density	: >1 [Air = 1]
Relative density	: 0.72
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

# Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
propan-1-ol	LD50 Dermal LD50 Oral	Rabbit Rat	5040 mg/kg 1870 mg/kg	
Isopropyl alcohol	LD50 Dermal LD50 Oral	Rabbit Rat	12800 mg/kg 5000 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
propan-1-ol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Skin - Mild irritant	Human	-	47 hours 100 Percent	-
	Skin - Mild irritant	Human	-	24 hours 100 Percent	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
Isopropyl alcohol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
Isopropyl alcohol	-	3	-

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely routes of exposure	: Not avail	able.		
Potential acute health effe	<u>cts</u>			
Eye contact	: Causes	serious eye irritation.		
Inhalation		by inhalation. At very high c ffocation from lack of oxyge		isplace the normal air and
Skin contact	: Irritating	to skin.		
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# Section 11. Toxicological information

Ingestion	: Irritating to mouth, throat and stomach.
	vsical, chemical and toxicological characteristics
Eye contact	<ul> <li>Adverse symptoms may include the following: pain or irritation</li> </ul>
	watering
	redness
Inhalation	: Adverse symptoms may include the following:
	dizziness/vertigo drowsiness/fatigue
	headache
Olvin a suffra f	unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation
	redness
Ingestion	: Adverse symptoms may include the following: Irritating to mouth, throat and stomach.
	nausea or vomiting
Delayed and immediate effect	cts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate	: Not available.
effects	
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
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	
Oral	3310.4 mg/kg	

# Section 12. Ecological information

**Toxicity** 

# Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
propan-1-ol	Acute EC50 4480000 µg/l Fresh water Acute LC50 1000000 µg/l Fresh water Acute LC50 2950000 µg/l Fresh water Acute LC50 3800000 µg/l Marine water	Algae - Selenastrum sp. Crustaceans - Gammarus pulex Daphnia - Daphnia pulex Fish - Alburnus alburnus	96 hours 48 hours 48 hours 96 hours
Isopropyl alcohol	Acute LC50 1400000 to 1950000 µg/l Marine water Acute LC50 4200 mg/l Fresh water	Crustaceans - Crangon crangon Fish - Rasbora heteromorpha	48 hours 96 hours

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
propan-1-ol	0.2	-	low
Isopropyl alcohol	0.05		low

#### Mobility in soil

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

### Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	ΙΑΤΑ
UN number	-	-	-	UN1263	UN1263	UN1263
UN proper shipping name	Consumer commodity ORM-D	Consumer commodity ORM-D	Consumer commodity ORM-D	PAINT	PAINT	PAINT
Transport hazard class(es)	ORM-D	ORM-D	ORM-D	3	3	3
Packing group	-	-	-	11	11	11
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# Section 14. Transport information

Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	-	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2. 18-2.19 (Class 3).	-	Special provisions 640 (C) Tunnel code (D/E)	Limited quantity	Dangerous Goods in Excepted Quantities

# 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

I.S. Federal regulations	: Т	SCA 8(a) CDR Exer	npt/Parti	al exemption	Not determin	ed	
	U	nited States invent	ory (TSC	CA 8b): All com	ponents are li	sted or exemp	ted.
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: N	ot listed					
Clean Air Act Section 602 Class I Substances	: N	ot listed					
Clean Air Act Section 602 Class II Substances	: N	ot listed					
DEA List I Chemicals (Precursor Chemicals)	: N	ot listed					
DEA List II Chemicals (Essential Chemicals)	: N	ot listed					
<u>SARA 302/304</u>							
Composition/information	on ing	redients					
No products were found.							
SARA 304 RQ	: N	ot applicable.					
<u>SARA 311/312</u>							
Classification	: Fire hazard Immediate (acute) health hazard						
Composition/information	<u>on inc</u>	<u>redients</u>					
Name		%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
propan-1-ol Isopropyl alcohol		≥10 - ≤21 ≤4.9	Yes. Yes.	No. No.	No. No.	Yes. Yes.	No. No.

#### <u>SARA 313</u>

### Section 15. Regulatory information

	Product name	CAS number	%
Form R - Reporting requirements	Isopropyl alcohol	67-63-0	≤4.9
Supplier notification	Isopropyl alcohol	67-63-0	≤4.9

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: PROPYL ALCOHOL; PROPANOL; ISOPROPYL ALCOHOL; 2-PROPANOL</li> </ul>
New York	: None of the components are listed.
New Jersey	: The following components are listed: PROPYL ALCOHOL; 1-PROPANOL; ISOPROPYL ALCOHOL; 2-PROPANOL
Pennsylvania	<ul> <li>The following components are listed: 1-PROPANOL; ISOPROPYL ALCOHOL MANUFACTURE (STRONG-ACID PROCESS)</li> </ul>
International regulations	
<u>Chemical Weapon Con</u>	vention List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol (Ann	<u>exes A, B, C, E)</u>
Not listed.	
Stockholm Convention	on Persistent Organic Pollutants
Not listed.	
Pottordam Convention	on Prior Informed Consent (PIC)
Not listed.	
	ol 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	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: All components are listed or exempted.
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. Oth	er information

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

Health	*	1
Flammability		3
Physical hazards		1

### Section 16. Other information

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

	Justification	
FLAMMABLE LIQUIDS - Ca EYE IRRITATION - Categor	On basis of test data Calculation method	
<u>History</u>		
Date of printing	: 10/28/2017	
Date of issue/Date of revision	: 10/28/2017	
Date of previous issue	: 10/28/2017	
Version	: 2	
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification a IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coeff MARPOL = International Convention for the Preventior as modified by the Protocol of 1978. ("Marpol" = marine UN = United Nations	icient of Pollution From Ships, 1973
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.