# **SAFETY DATA SHEET**



Techspray Eco-dFluxer SMT 100

Section 1. Identifi	cation
GHS product identifier	: Techspray Eco-dFluxer SMT 100
Product code	: 1550-4L, 1550-G, 1550-5G, 1550-54G, 1550-20L, 1550-200L
Other means of	: Cleaning solutions.
identification	Aqueous Defluxer Concentrate
Product type	: Liquid.
Relevant identified uses of t	the substance or mixture and uses advised against
Not applicable.	
Supplier's details	: Techspray 8125 Cobb Center Drive Kennesaw, GA 30152 Tel: 678-819-1408 Toll free: 1-800-858-4043 Fax: 1 806-372-8750
Emergency telephone number (with hours of operation)	: Chemtrec - 1-800-424-9300 CANUTEC (Canadian Transportation): (613) 996-6666 Emergency phone: (800) 858-4043 24/7
Section 2. Hazard	s identification
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the	: SKIN CORROSION - Category 1
substance or mixture	SERIOUS EYE DAMAGE - Category 1
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 40%
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	: Causes severe skin burns and eye damage.
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wash hands thoroughly after handling.
Response	: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
Storage	: Store locked up.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Hazards not otherwise classified	: None known.
Date of issue/Date of revision	: 6/28/2019 Date of previous issue : 6/28/2019 Version : 2 1/12

## Section 3. Composition/information on ingredients

### Substance/mixture Other means of identification

: Mixture

: Cleaning solutions.

Aqueous Defluxer Concentrate

Ingredient name	%	CAS number
2-aminoethanol	≥10 - <25	141-43-5

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	: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. 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. 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	: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a 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 symptom	oms/effects, acute and delayed
Potential acute health	<u>effects</u>
Eye contact	: Causes serious eye damage.
Inhalation	<ul> <li>Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.</li> </ul>
Skin contact	: Causes severe burns.
Ingestion	: Do not ingest. If swallowed then seek immediate medical assistance.
Over-exposure signs/	symptoms

## Section 4. First aid measures

suspected that fumes are still present, the rescuer should wear an appropriate mask of self-contained breathing apparatus. It may be dangerous to the person providing aid t give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with wate		
Skin contact       : Adverse symptoms may include the following: pain or irritation redness blistering may occur         Ingestion       : Adverse symptoms may include the following: Ingestion Seek medical attention.         Indication of immediate medical attention and special treatment needed, if necessary         Notes to physician       : 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.         Specific treatments       : No specific treatment.         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 give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with wate	Eye contact	Causes eye burns. pain watering
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Defore removing it, or wear gloves.	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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

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Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Special protective actions for fire-fighters	<ul> <li>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.</li> </ul>
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	Evacuate entering. Provide a	shall be taken involving an surrounding areas. Keep Do not touch or walk throu dequate ventilation. Wear e. Put on appropriate pers	unnecessary and un gh spilled material. appropriate respirate	protected perso Do not breathe or when ventila	onnel from vapor or r	
For emergency responders	Section 8	zed clothing is required to o on suitable and unsuitable by personnel".				
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## Section 6. Accidental release measures

<ul> <li>if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material a place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</li> <li>Large spill</li> <li>Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wa 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</li> </ul>	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).	
<ul> <li>if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material a place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</li> <li>Large spill</li> <li>Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wa 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. Note: see</li> </ul>	Methods and materials for co	ontainment and cleaning up	
upwind. Prevent entry into sewers, water courses, basements or confined areas. Wa 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	Small spill		
	Large spill	upwind. Prevent entry into sewers, water courses, basements or confined areas. Was 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	sh

## Section 7. Handling and storage

Precautions for safe handling	1
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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 original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. 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-aminoethanol			ACGIH TLV (Uni TWA: 3 ppm 8 h TWA: 7.5 mg/m STEL: 6 ppm 15 STEL: 15 mg/m OSHA PEL 1989 TWA: 3 ppm 8 h TWA: 8 mg/m <sup>3</sup> 8 STEL: 6 ppm 15 STEL: 15 mg/m	ted States, 3/2015). nours. <sup>3</sup> 8 hours. 5 minutes. <sup>3</sup> 15 minutes. (United States, 3/1989 nours. 3 hours. 5 minutes. <sup>3</sup> 15 minutes. 15 minutes. 15 minutes. 10 hours.	9).
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## Section 8. Exposure controls/personal protection

TWA: 6 mg/m <sup>3</sup> 8 hours.
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Appropriate engineering controls	<ul> <li>If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.</li> </ul>
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>ures</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 and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
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.
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	<ul> <li>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.</li> </ul>

## Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid.
Color	: Clear. Straw.
Odor	: Not available.
Odor threshold	: Not available.
рН	: 11
Melting point	: Not available.
Boiling point	: 95°C (203°F)
Flash point	: Not available.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.

## Section 9. Physical and chemical properties

Lower and upper explosive (flammable) limits	:	Not available.
Vapor pressure	1	
Vapor density	:	Not available.
Relative density	:	0.96
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).
Incompatible materials	: Reactive or incompatible with the following materials: strong acids and alkalis reactive metals and Strong 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
2-aminoethanol	LD50 Oral	Rat	1720 mg/kg	-

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-aminoethanol	Eyes - Severe irritant	Rabbit	-	250 Micrograms	-
	Skin - Moderate irritant	Rabbit	-	505 milligrams	-

### **Sensitization**

Not available.

### **Mutagenicity**

Not available.

### **Carcinogenicity**

Not available.

### **Reproductive toxicity**

Not available.

## Section 11. Toxicological information

Teratogenicity Not available.	
Specific target organ toxici Not available.	<u>ty (single exposure)</u>
Specific target organ toxici Not available.	t <u>y (repeated exposure)</u>
Aspiration hazard Not available.	
Information on the likely routes of exposure	: Not available.
Potential acute health effects	2
Eye contact	: Causes serious eye damage.
Inhalation	: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	: Causes severe burns.
Ingestion	: Do not ingest. If swallowed then seek immediate medical assistance.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: Causes eye burns. pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: Ingestion Seek medical attention.
Delayed and immediate effect	cts 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 effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
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.

- 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.

## Section 11. Toxicological information

### Numerical measures of toxicity

### Acute toxicity estimates

Route	ATE value
Oral	5160 mg/kg

### Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
2-aminoethanol	Acute EC50 8.42 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute LC50 >100000 μg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 170 mg/l Fresh water	Fish - Carassius auratus	96 hours

### Persistence and degradability

Not available.

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
2-aminoethanol	-1.31	-	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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains
	and sewers.

## Section 14. Transport information

## Section 14. Transport information

·	Indhopon			·		
	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	ΙΑΤΑ
UN number	UN2491	UN2491	UN2491	UN2491	UN2491	UN2491
UN proper shipping name	Ethanolamine or Ethanolamine solutions	Ethanolamine or Ethanolamine solutions	Ethanolamine or Ethanolamine solutions	Ethanolamine or Ethanolamine solutions	Ethanolamine or Ethanolamine solutions	Ethanolamine or Ethanolamine solutions
Transport hazard class(es)	8 CORRECTION	8	8	8	8	8
Packing group	Ш	Ш	Ш	Ш	III	Ш
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. 40-2.42 (Class 8).	-	-	-	-

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)	CDR Exempt/Partial ex	emption: Not detern	nined	
	United Sta	ates inventory (TSCA 8b	): All components ar	e listed or exempted.	
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed				
Clean Air Act Section 602 Class I Substances	: Not listed				
Clean Air Act Section 602 Class II Substances	: Not listed				
DEA List I Chemicals (Precursor Chemicals)	: Not listed				
DEA List II Chemicals (Essential Chemicals)	: Not listed				
SARA 302/304					
Composition/information	on ingredients	<u>i</u>			
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## Section 15. Regulatory information

No products were found.

### SARA 304 RQ

: Not applicable.

### SARA 311/312 Classification

: Immediate (acute) health hazard

Composition/information on ingredients

Name		hazard	Sudden release of pressure		(acute) health	Delayed (chronic) health hazard
2-aminoethanol	≥10 - <25	Yes.	No.	No.	Yes.	No.

### **State regulations**

Massachusetts					
Wassachusells	The following components are listed: ETHANOLAMINE; 2-AMINOETHANOL				
New York	: None of the components are listed.				
New Jersey	The following components are listed: ETHANOLAMINE; ETHANOL, 2-AMINO-				
Pennsylvania	: The following components are listed: ETHANOL, 2-AMINO-				
International regulations	<u>5</u>				
Chemical Weapon Con	vention List Schedules I, II & III Chemicals				
Not listed.					
Montreal Protocol (Ann	nexes A. B. C. E)				
Not listed.					
	en Remintent Ornenia Rellutente				
Not listed.	on Persistent Organic Pollutants				
NOT IISTED.					
Rotterdam Convention	on Prior Informed Consent (PIC)				
Not listed.					
UNECE Aarhus Protoco	<u>ol on POPs and Heavy Metals</u>				
UNECE Aarhus Protoco Not listed.	ol on POPs and Heavy Metals				
Not listed.	ol on POPs and Heavy Metals				
Not listed. International lists	ol on POPs and Heavy Metals				
Not listed.					
Not listed. International lists National inventory Australia	: All components are listed or exempted.				
Not listed. International lists National inventory	<ul><li>All components are listed or exempted.</li><li>All components are listed or exempted.</li></ul>				
Not listed. International lists National inventory Australia Canada China	<ul> <li>All components are listed or exempted.</li> <li>All components are listed or exempted.</li> <li>All components are listed or exempted.</li> </ul>				
Not listed. International lists National inventory Australia Canada China Europe	<ul> <li>All components are listed or exempted.</li> </ul>				
Not listed. International lists National inventory Australia Canada China	<ul> <li>All components are listed or exempted.</li> <li>All components are listed or exempted.</li> <li>All components are listed or exempted.</li> </ul>				
Not listed. International lists National inventory Australia Canada China Europe	<ul> <li>All components are listed or exempted.</li> <li>Japan inventory (ENCS): All components are listed or exempted.</li> </ul>				
Not listed. International lists National inventory Australia Canada China Europe Japan	<ul> <li>All components are listed or exempted.</li> <li>Japan inventory (ENCS): All components are listed or exempted.</li> <li>Japan inventory (ISHL): Not determined.</li> </ul>				
Not listed. International lists National inventory Australia Canada China Europe Japan Malaysia	<ul> <li>All components are listed or exempted.</li> <li>Japan inventory (ENCS): All components are listed or exempted.</li> <li>Japan inventory (ISHL): Not determined.</li> <li>Not determined.</li> </ul>				
Not listed. International lists National inventory Australia Canada China Europe Japan Malaysia New Zealand	<ul> <li>All components are listed or exempted.</li> <li>Japan inventory (ENCS): All components are listed or exempted. Japan inventory (ISHL): Not determined.</li> <li>Not determined.</li> <li>All components are listed or exempted.</li> </ul>				
Not listed. International lists National inventory Australia Canada China Europe Japan Malaysia New Zealand Philippines	<ul> <li>All components are listed or exempted.</li> <li>Japan inventory (ENCS): All components are listed or exempted. Japan inventory (ISHL): Not determined.</li> <li>Not determined.</li> <li>All components are listed or exempted.</li> <li>All components are listed or exempted.</li> </ul>				

## 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

	Justification				
SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1		Calculation method Calculation method			
<u>History</u>					
Date of printing	: 6/28/2019				
Date of issue/Date of revision	: 6/28/2019				
Date of previous issue	: 6/28/2019				
Version	: 2				
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classifie IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Good LogPow = logarithm of the octanol/water partitic MARPOL = International Convention for the Pre as modified by the Protocol of 1978. ("Marpol" = UN = United Nations	ds on coefficient evention of Pollution From Ships, 1973			
References	: Not available.				

Indicates information that has changed from previously issued version.
<u>Notice to reader</u>

## Section 16. Other information

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.