

## 1 Identification

- **Product identifier**
- **Product Name:** Stock VO
- **Part Name:** USP-RS-C1
- **Application of the substance / the mixture** Certified Reference Material
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Spex CertiPrep, LLC.  
203 Norcross Ave, Metuchen,  
NJ 08840 USA  
732-549-7144  
USMet-CRMSales@antylia.com
- **Information department:** product safety department
- **Emergency telephone number:**  
Emergency Phone Number (24 hours)  
CHEMTREC (800-424-9300)  
Outside US: 703-527-3887

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable Liquids 2

H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Germ Cell Mutagenicity 1B

H340 May cause genetic defects.

Carcinogenicity 1A

H350 May cause cancer.

Specific Target Organ Toxicity - Repeated Exposure 1

H372 Causes damage to the central nervous system and the hematopoietic system through prolonged or repeated exposure.



GHS07

Skin Irritation 2

H315 Causes skin irritation.

Eye Irritation 2A

H319 Causes serious eye irritation.

- **Label elements**

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02



GHS07



GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

1,2-dichloroethane

benzene

carbon tetrachloride

1,1-dichloroethylene

- **Hazard statements**

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H340 May cause genetic defects.

H350 May cause cancer.

H372 Causes damage to the central nervous system and the hematopoietic system through prolonged or repeated exposure.

- **Precautionary statements**

P210

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233

Keep container tightly closed.

Product Name: Stock VO

(Contd. of page 1)

- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use only non-sparking tools.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:
- NFPA ratings (scale 0 - 4)



- HMIS-ratings (scale 0 - 4)



- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

67-68-5	dimethyl sulfoxide	85.5%
71-55-6	1,1,1-trichloroethane	5.0%
75-35-4	1,1-dichloroethylene	4.0%
107-06-2	1,2-dichloroethane	2.5%
56-23-5	carbon tetrachloride	2.0%
71-43-2	benzene	1.0%

4 First-aid measures

- Description of first aid measures
- General information:  
Immediately remove any clothing soiled by the product.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Do not give anything to eat or drink - Do not induce vomiting
- Information for Doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- Protective equipment: Mouth respiratory protective device.

(Contd. on page 3)

Product Name: Stock VO

(Contd. of page 2)

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· <b>PAC-1:</b>		
67-68-5	dimethyl sulfoxide	150 ppm
71-55-6	1,1,1-trichloroethane	230 ppm
75-35-4	1,1-dichloroethylene	45 ppm
107-06-2	1,2-dichloroethane	50 ppm
56-23-5	carbon tetrachloride	1.2 ppm
71-43-2	benzene	52 ppm
· <b>PAC-2:</b>		
67-68-5	dimethyl sulfoxide	290 ppm
71-55-6	1,1,1-trichloroethane	600 ppm
75-35-4	1,1-dichloroethylene	500 ppm
107-06-2	1,2-dichloroethane	200 ppm
56-23-5	carbon tetrachloride	13 ppm
71-43-2	benzene	800 ppm
· <b>PAC-3:</b>		
67-68-5	dimethyl sulfoxide	1,800 ppm
71-55-6	1,1,1-trichloroethane	4,200 ppm
75-35-4	1,1-dichloroethylene	1,000 ppm
107-06-2	1,2-dichloroethane	300 ppm
56-23-5	carbon tetrachloride	340 ppm
71-43-2	benzene	4000* ppm

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**  
· **Requirements to be met by storerooms and receptacles:** Store in a cool location.  
· **Information about storage in one common storage facility:** Not required.  
· **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

(Contd. on page 4)

**Product Name: Stock VO**

(Contd. of page 3)

**· Control parameters**

**· Components with limit values that require monitoring at the workplace:**

<b>67-68-5 dimethyl sulfoxide</b>	
WEEL	Long-term value: 250 ppm
<b>71-55-6 1,1,1-trichloroethane</b>	
PEL	Long-term value: 1900 mg/m <sup>3</sup> , 350 ppm
REL	Ceiling limit value: 1900* mg/m <sup>3</sup> , 350* ppm *15-min; See Pocket Guide App. C
TLV	Short-term value: 450 ppm Long-term value: 350 ppm BEI, A4
<b>75-35-4 1,1-dichloroethylene</b>	
REL	See Pocket Guide App.A
TLV	Long-term value: 5 ppm A4
<b>107-06-2 1,2-dichloroethane</b>	
PEL	Long-term value: 50 ppm Ceiling limit value: 100; 200* ppm *5-min peak in any 3 hrs
REL	Short-term value: 8 mg/m <sup>3</sup> , 2 ppm Long-term value: 4 mg/m <sup>3</sup> , 1 ppm See Pocket Guide Apps. A and C
TLV	Long-term value: 10 ppm A4
<b>56-23-5 carbon tetrachloride</b>	
PEL	Long-term value: 10 ppm Ceiling limit value: 25; 200* ppm *5-min peak in any 4 hrs
REL	Short-term value: 12.6* mg/m <sup>3</sup> , 2* ppm *60-min; See Pocket Guide App. A
TLV	Short-term value: 10 ppm Long-term value: 5 ppm Skin, A2
<b>71-43-2 benzene</b>	
PEL	Short-term value: 15* mg/m <sup>3</sup> , 5* ppm Long-term value: 3* mg/m <sup>3</sup> , 1* ppm *table Z-2 for exclusions in 29CFR1910.1028(d)
REL	Short-term value: 1 ppm Long-term value: 0.1 ppm See Pocket Guide App. A
TLV	Short-term value: (2.5) NIC-0.1 ppm Long-term value: (0.5) NIC-0.02 ppm Skin; BEI, A1
<b>· Ingredients with biological limit values:</b>	
<b>71-55-6 1,1,1-trichloroethane</b>	
BEI	20 ppm Medium: end-exhaled air Time: prior to shift at end of workweek Parameter: Methyl chloroform  700 µg/L Medium: urine Time: end of shift Parameter: Methyl chloroform
<b>71-43-2 benzene</b>	
BEI	25 µg/g creatinine Medium: urine Time: end of shift Parameter: S-Phenylmercapturic acid (background)  500 µg/g creatinine Medium: urine Time: end of shift Parameter: t,t-Muconic acid (background)

(Contd. on page 5)

Product Name: Stock VO

(Contd. of page 4)

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odour Threshold:	Not applicable.

· **pH-value:** Not applicable.

· **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	74 °C (165.2 °F)

· **Flash point:** < 23 °C (< 73.4 °F)

· **Flammability (solid, gaseous):** Highly flammable.

· **Ignition temperature:** 270 °C (518 °F)

· **Decomposition temperature:** Not applicable.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

Lower:	1.8 Vol %
Upper:	63 Vol %

· **Vapor pressure at 20 °C (68 °F):** 2.5 hPa (1.9 mm Hg)

· **Density at 20 °C (68 °F)** 1.12804 g/cm<sup>3</sup> (9.41349 lbs/gal)

· **Relative density** Not applicable.

· **Vapor density** Not applicable.

· **Evaporation rate** Not applicable.

(Contd. on page 6)

Product Name: Stock VO

(Contd. of page 5)

· <b>Solubility in / Miscibility with Water:</b>	Fully miscible.
· <b>Partition coefficient (n-octanol/water):</b>	Not applicable.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	93.5 %
<b>VOC content:</b>	88.50 %
<b>Solids content:</b>	0.0 %
· <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

**67-68-5 dimethyl sulfoxide**

Oral	LD50	14,500 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant  
The product can cause inheritable damage.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

71-55-6	1,1,1-trichloroethane	3
75-35-4	1,1-dichloroethylene	2B
107-06-2	1,2-dichloroethane	2B
56-23-5	carbon tetrachloride	2B
71-43-2	benzene	1

· **NTP (National Toxicology Program)**

107-06-2	1,2-dichloroethane	R
56-23-5	carbon tetrachloride	R
71-43-2	benzene	K

· **OSHA-Ca (Occupational Safety & Health Administration)**

71-43-2	benzene
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## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

(Contd. on page 7)

Product Name: Stock VO



(Contd. of page 6)

- **Additional ecological information:**
- **General notes:**  
Water hazard class 3 (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

· <b>UN-Number</b> · <b>DOT, ADR, IMDG, IATA</b>	UN1993
· <b>UN proper shipping name</b> · <b>DOT</b> · <b>ADR</b> · <b>IMDG, IATA</b>	Flammable liquids, n.o.s. (Vinylidene chloride, stabilized, Ethylene dichloride) 1993 FLAMMABLE LIQUID, N.O.S. (VINYLIDENE CHLORIDE, STABILIZED, ETHYLENE DICHLORIDE) FLAMMABLE LIQUID, N.O.S. (VINYLIDENE CHLORIDE, STABILIZED, ETHYLENE DICHLORIDE)
· <b>Transport hazard class(es)</b> · <b>DOT</b>	
	
· <b>Class</b> · <b>Label</b>	3 Flammable liquids 3
· <b>ADR, IMDG, IATA</b>	
	
· <b>Class</b> · <b>Label</b>	3 Flammable liquids 3
· <b>Packing group</b> · <b>DOT, ADR, IMDG, IATA</b>	II
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b> · <b>Hazard identification number (Kemler code):</b> · <b>EMS Number:</b> · <b>Segregation groups</b> · <b>Stowage Category</b>	Warning: Flammable liquids 33 F-E, S-E (SGG10) Liquid halogenated hydrocarbons B
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b> · <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

(Contd. on page 8)

Product Name: Stock VO

(Contd. of page 7)

<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	<p>1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml</p>
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	<p>UN 1993 FLAMMABLE LIQUID, N.O.S. (VINYLIDENE CHLORIDE, STABILIZED, ETHYLENE DICHLORIDE), 3, II</p>

**15 Regulatory information**

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

<ul style="list-style-type: none"> <li>· <b>Section 313 (Specific toxic chemical listings):</b></li> </ul>	
71-55-6	1,1,1-trichloroethane
75-35-4	1,1-dichloroethylene
107-06-2	1,2-dichloroethane
56-23-5	carbon tetrachloride
71-43-2	benzene

<ul style="list-style-type: none"> <li>· <b>TSCA (Toxic Substances Control Act):</b></li> </ul>
All components have the value ACTIVE.

<ul style="list-style-type: none"> <li>· <b>Hazardous Air Pollutants</b></li> </ul>	
71-55-6	1,1,1-trichloroethane
75-35-4	1,1-dichloroethylene
107-06-2	1,2-dichloroethane
56-23-5	carbon tetrachloride
71-43-2	benzene

<ul style="list-style-type: none"> <li>· <b>Proposition 65</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause cancer:</b></li> </ul>	
75-35-4	1,1-dichloroethylene
107-06-2	1,2-dichloroethane
56-23-5	carbon tetrachloride
71-43-2	benzene

<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause reproductive toxicity for females:</b></li> </ul>	
None of the ingredients is listed.	

<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause reproductive toxicity for males:</b></li> </ul>	
71-43-2	benzene

<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause developmental toxicity:</b></li> </ul>	
71-43-2	benzene

- **Carcinogenic categories**

<ul style="list-style-type: none"> <li>· <b>EPA (Environmental Protection Agency)</b></li> </ul>		
71-55-6	1,1,1-trichloroethane	II
75-35-4	1,1-dichloroethylene	C, S (inh.), I (oral)
107-06-2	1,2-dichloroethane	B2
56-23-5	carbon tetrachloride	L
71-43-2	benzene	A, K/L

<ul style="list-style-type: none"> <li>· <b>TLV (Threshold Limit Value)</b></li> </ul>		
71-55-6	1,1,1-trichloroethane	A4
75-35-4	1,1-dichloroethylene	A4
107-06-2	1,2-dichloroethane	A4
56-23-5	carbon tetrachloride	A2
71-43-2	benzene	A1

<ul style="list-style-type: none"> <li>· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b></li> </ul>	
75-35-4	1,1-dichloroethylene
107-06-2	1,2-dichloroethane
56-23-5	carbon tetrachloride
71-43-2	benzene

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 9)



Product Name: Stock VO

(Contd. of page 8)

**Hazard pictograms**



**Signal word** Danger

**Hazard-determining components of labeling:**

1,2-dichloroethane  
benzene  
carbon tetrachloride  
1,1-dichloroethylene

**Hazard statements**

H225 Highly flammable liquid and vapor.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H340 May cause genetic defects.  
H350 May cause cancer.  
H372 Causes damage to the central nervous system and the hematopoietic system through prolonged or repeated exposure.

**Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P242 Use only non-sparking tools.  
P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**National regulations:**

**Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Department issuing SDS:** product safety department

**Contact:**

Spex CertiPrep, LLC.  
1-732-549-7144

**Date of preparation / last revision** 10/13/2022 / -

**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
BEI: Biological Exposure Limit  
Flammable Liquids 2: Flammable liquids – Category 2  
Skin Irritation 2: Skin corrosion/irritation – Category 2

(Contd. on page 10)

Printing date 10/13/2022

Reviewed on 10/13/2022

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**Product Name: Stock VO**

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(Contd. of page 9)

*Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A*

*Germ Cell Mutagenicity 1B: Germ cell mutagenicity – Category 1B*

*Carcinogenicity 1A: Carcinogenicity – Category 1A*

*Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1*

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US —