Printing date 03/21/2024

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Reviewed on 03/21/2024

Identification	
Product identifier	CEDI 7/
Trade name: Proteinase K	SERVA
from Tritirachium album	min. 30 mAnson-U/mg
Article number: 33752	
CAS Number:	
39450-01-6	
EC number:	
254-457-8 Application of the substance / the mixt	una Laboratom chemicals
Details of the supplier of the safety data	a sheet
Manufacturer/Supplier: SERVA Electrophoresis GmbH	
Carl-Benz-Str. 7	. 6
D-69115 Heidelberg	
Tel.: +49 6221 13840-0	2
FAX: +49 6221 13840-10	
msds.info@serva.de	
Information department: Product Safet	ty Department Tel.: +49 6221 13840-35
Emergency telephone number:	of paironing
Emergency medical information in case Poison Information Center Mainz-Tel: -	
(Advice in German and English)	+49 (0) 0131 19240
Hazard(s) identification	
. 0	ure
Hazard(s) identification Classification of the substance or mixt	ure
. 0	ure
Classification of the substance or mixt	ure
Classification of the substance or mixte	
Classification of the substance or mixt	ure H334 May cause allergy or asthma symptoms breathing difficulties if inhaled.
Classification of the substance or mixte	H334 May cause allergy or asthma symptoms
Classification of the substance or mixto GHS08 Sensitization - Respiratory 1	H334 May cause allergy or asthma symptoms
Classification of the substance or mixte	H334 May cause allergy or asthma symptoms
Classification of the substance or mixter GHS08 Sensitization - Respiratory 1 GHS07	H334 May cause allergy or asthma symptoms breathing difficulties if inhaled.
Classification of the substance or mixter GHS08 Sensitization - Respiratory I GHS07 Skin Irritation 2	H334 May cause allergy or asthma symptoms breathing difficulties if inhaled. H315 Causes skin irritation.
Classification of the substance or mixter GHS08 Sensitization - Respiratory I GHS07 Skin Irritation 2 Eye Irritation 2A	H334 May cause allergy or asthma symptoms breathing difficulties if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation.
Classification of the substance or mixter GHS08 Sensitization - Respiratory I GHS07 Skin Irritation 2 Eye Irritation 2A	H334 May cause allergy or asthma symptoms breathing difficulties if inhaled. H315 Causes skin irritation.
Classification of the substance or mixter GHS08 Sensitization - Respiratory I GHS07 Skin Irritation 2 Eye Irritation 2A Specific Target Organ Toxicity - Single Label elements	H334 May cause allergy or asthma symptoms breathing difficulties if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation.
Classification of the substance or mixter GHS08 Sensitization - Respiratory I GHS07 Skin Irritation 2 Eye Irritation 2A Specific Target Organ Toxicity - Single Label elements GHS label elements	H334 May cause allergy or asthma symptoms breathing difficulties if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. Exposure 3 H335 May cause respiratory irritation.
Classification of the substance or mixter GHS08 Sensitization - Respiratory I GHS07 Skin Irritation 2 Eye Irritation 2A Specific Target Organ Toxicity - Single Label elements GHS label elements The substance is classified and labeled	H334 May cause allergy or asthma symptoms breathing difficulties if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation.
Classification of the substance or mixter GHS08 Sensitization - Respiratory 1 GHS07 Skin Irritation 2 Eye Irritation 2A Specific Target Organ Toxicity - Single Label elements GHS label elements The substance is classified and labeled Hazard pictograms: GHS07, GHS08	H334 May cause allergy or asthma symptoms breathing difficulties if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. Exposure 3 H335 May cause respiratory irritation.
Classification of the substance or mixter GHS08 Sensitization - Respiratory 1 GHS07 Skin Irritation 2 Eye Irritation 2A Specific Target Organ Toxicity - Single Label elements GHS label elements The substance is classified and labeled Hazard pictograms: GHS07, GHS08 Signal word: Danger	H334 May cause allergy or asthma symptoms breathing difficulties if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. Exposure 3 H335 May cause respiratory irritation.
Classification of the substance or mixter GHS08 Sensitization - Respiratory 1 GHS07 Skin Irritation 2 Eye Irritation 2A Specific Target Organ Toxicity - Single Label elements GHS label elements The substance is classified and labeled Hazard pictograms: GHS07, GHS08 Signal word: Danger	H334 May cause allergy or asthma symptoms breathing difficulties if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. Exposure 3 H335 May cause respiratory irritation.
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Classification of the substance or mixter GHS08 Sensitization - Respiratory I GHS07 Skin Irritation 2 Eye Irritation 2A Specific Target Organ Toxicity - Single Label elements GHS label elements The substance is classified and labeled Hazard pictograms: GHS07, GHS08 Signal word: Danger Hazard statements: Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms May cause respiratory irritation.	H334 May cause allergy or asthma symptoms breathing difficulties if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. Exposure 3 H335 May cause respiratory irritation. according to the Globally Harmonized System (GHS). or breathing difficulties if inhaled. ing/eye protection/face protection.

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If on skin: Wash with plenty of soap and water.

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IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If experiencing respiratory symptoms: Call a poison center/doctor. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 2Fire = 0Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH \*2 Health = \*2 FIRE 0 Fire = 0**REACTIVITY Reactivity** = 0

- · Other hazards
- · Results of PBT and vPvB assessment:
- · **PBT:** PBT Assessment not available.
- · **vPvB**: vPvB Assessment not available.

### 3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description:

39450-01-6 Proteinase, Tritirachium album serine

- Identification number(s):
- EC number: 254-457-8
- · Description:
- MW: ca. 28 000

#### 4 First-aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:
- Wash off immediately with soap and water and rinse thoroughly. In case of complaints, consult a doctor. After eye contact:

Rinse opened eye for several minutes with running water. Remove existing contact lenses, if possible, and continue rinsing. In case of complaints, consult an ophthalmologist.

- After swallowing: Rinse out mouth. Call a doctor immediately.
- 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:

*CO*<sub>2</sub> extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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• Special hazards arising from the substance or mixture In case of fire, the following can be released: Nitrogen oxides (NOx) Carbon monoxide and carbon dioxide

• Advice for firefighters

· Protective equipment: Wear self-contained breathing apparatus.

### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective clothing. Ensure adequate ventilation Avoid formation of dust.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- *Methods and material for containment and cleaning up Dispose contaminated material as waste according to section 13. Pick up mechanically.*
- · Protective Action Criteria for Chemicals
- · PAC-1: Substance is not listed.
- PAC-2: Substance is not listed.
- · PAC-3: Substance is not listed.
- **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.

#### 7 Handling and storage

• *Precautions for safe handling:* Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust.

· Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- $\cdot$  Requirements to be met by storerooms and receptacles: Storage at +2 to +8 °C

Store only in the original receptacle.

- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store container tightly closed and dry.
- Specific end use(s): No further relevant information available.

## 8 Exposure controls/personal protection

· Control parameters

- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.

- Additional information about design of technical systems: No further data; see section 7.
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Store protective clothing separately. Immediately remove all soiled and contaminated clothing.

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<sup>·</sup> Exposure controls

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Trade name:	ame: Proteinase K		
	from Tritirachium album	min. 30 mAnson-U/mg	

	(Contd. of page 3
Avoid contact with the eyes and skin.	
Wash hands before breaks and at the end of w	ork.
Breathing equipment:	
Short term filter device:	
Filter P2	
Protection of hands:	I register to the meduat (the substance (the mean question
Protective gloves	l resistant to the product/ the substance/ the preparation.
	a glove material can be given for the product the propagation
the chemical mixture.	e glove material can be given for the product/ the preparation
	ration of the penetration times, rates of diffusion and th
degradation	ration of the penetration times, rates of affusion and th
Material of gloves:	
	ot only depend on the material, but also on further marks o
quality and varies from manufacturer to manu	
Penetration time of glove material:	
	out by the manufacturer of the protective gloves and has to b
observed.	
	of 15 minutes gloves made of the following materials ar
suitable:	
Natural rubber, NR	
Nitrile rubber, NBR	
Eye protection:	
Safety glasses	
Tightly sealed goggles	
Tightly sealed goggles Body protection: Protective work clothing	
Body protection: Protective work clothing	
Body protection: Protective work clothing Physical and chemical properties	properties
Body protection: Protective work clothing Physical and chemical properties Information on basic physical and chemical p	properties
<b>Body protection:</b> Protective work clothing <b>Physical and chemical properties</b> <b>Information on basic physical and chemical p</b> <b>General Information:</b>	properties White
Body protection: Protective work clothing Physical and chemical properties Information on basic physical and chemical p General Information: Color:	White
Body protection: Protective work clothing Physical and chemical properties Information on basic physical and chemical p General Information: Color: Odor:	White Nearly odorless
Body protection: Protective work clothing Physical and chemical properties Information on basic physical and chemical p General Information: Color: Odor: Odor threshold:	White Nearly odorless No information available
Body protection: Protective work clothing Physical and chemical properties Information on basic physical and chemical p General Information: Color: Odor: Odor threshold: Melting point/Melting range:	White Nearly odorless No information available No information available
Body protection: Protective work clothing Physical and chemical properties Information on basic physical and chemical p General Information: Color: Odor: Odor threshold: Melting point/Melting range: Boiling point/Boiling range:	White Nearly odorless No information available No information available No information available
Body protection: Protective work clothing Physical and chemical properties Information on basic physical and chemical p General Information: Color: Odor: Odor threshold: Melting point/Melting range: Boiling point/Boiling range: Flammability (solid, gaseous):	White Nearly odorless No information available No information available
Body protection: Protective work clothing Physical and chemical properties Information on basic physical and chemical p General Information: Color: Odor: Odor threshold: Melting point/Melting range: Boiling point/Boiling range: Flammability (solid, gaseous): Explosion limits:	White Nearly odorless No information available No information available No information available No information available
Body protection: Protective work clothing Physical and chemical properties Information on basic physical and chemical p General Information: Color: Odor: Odor threshold: Melting point/Melting range: Boiling point/Boiling range: Flammability (solid, gaseous): Explosion limits: Lower:	White Nearly odorless No information available No information available No information available No information available No information available
Body protection: Protective work clothing Physical and chemical properties Information on basic physical and chemical p General Information: Color: Odor: Odor threshold: Melting point/Melting range: Boiling point/Boiling range: Flammability (solid, gaseous): Explosion limits: Lower: Upper:	White Nearly odorless No information available No information available No information available No information available No information available
Body protection: Protective work clothing Physical and chemical properties Information on basic physical and chemical p General Information: Color: Odor: Odor threshold: Melting point/Melting range: Boiling point/Boiling range: Flammability (solid, gaseous): Explosion limits: Lower: Upper: Flash point:	White Nearly odorless No information available No information available No information available No information available No information available No information available No information available
Body protection: Protective work clothing Physical and chemical properties Information on basic physical and chemical p General Information: Color: Odor: Odor threshold: Melting point/Melting range: Boiling point/Boiling range: Flammability (solid, gaseous): Explosion limits: Lower: Upper: Flash point: Decomposition temperature:	White Nearly odorless No information available No information available
Body protection: Protective work clothing Physical and chemical properties Information on basic physical and chemical p General Information: Color: Odor: Odor threshold: Melting point/Melting range: Boiling point/Molting range: Flammability (solid, gaseous): Explosion limits: Lower: Upper: Flash point: Decomposition temperature: pH-value:	White Nearly odorless No information available No information available No information available No information available No information available No information available No information available
Body protection: Protective work clothing Physical and chemical properties Information on basic physical and chemical p General Information: Color: Odor: Odor threshold: Melting point/Melting range: Boiling point/Boiling range: Flammability (solid, gaseous): Explosion limits: Lower: Upper: Flash point: Decomposition temperature: pH-value: Viscosity:	White Nearly odorless No information available No information available No information available No information available No information available No information available No information available 6.2-6.8
Body protection: Protective work clothing Physical and chemical properties Information on basic physical and chemical p General Information: Color: Odor: Odor threshold: Melting point/Melting range: Boiling point/Melting range: Flammability (solid, gaseous): Explosion limits: Lower: Upper: Flash point: Decomposition temperature: pH-value: Viscosity: Kinematic viscosity:	White Nearly odorless No information available No information available No information available No information available No information available No information available 6.2-6.8
Body protection: Protective work clothing Physical and chemical properties Information on basic physical and chemical p General Information: Color: Odor: Odor threshold: Melting point/Melting range: Boiling point/Melting range: Flammability (solid, gaseous): Explosion limits: Lower: Upper: Flash point: Decomposition temperature: pH-value: Viscosity: Kinematic viscosity: Dynamic viscosity:	White Nearly odorless No information available No information available No information available No information available No information available No information available No information available 6.2-6.8
Body protection: Protective work clothing Physical and chemical properties Information on basic physical and chemical p General Information: Color: Odor: Odor threshold: Melting point/Melting range: Boiling point/Boiling range: Flammability (solid, gaseous): Explosion limits: Lower: Upper: Flash point: Decomposition temperature: pH-value: Viscosity: Kinematic viscosity: Dynamic viscosity: Solubility in / Miscibility with:	White Nearly odorless No information available No information available No information available No information available No information available No information available 6.2-6.8 No information available No information available
Body protection: Protective work clothing Physical and chemical properties Information on basic physical and chemical p General Information: Color: Odor: Odor threshold: Melting point/Melting range: Boiling point/Boiling range: Flammability (solid, gaseous): Explosion limits: Lower: Upper: Flash point: Decomposition temperature: pH-value: Viscosity: Kinematic viscosity: Dynamic viscosity: Solubility in / Miscibility with: Water:	White Nearly odorless No information available No information available No information available No information available No information available No information available 6.2-6.8 No information available No information available Soluble.
Body protection: Protective work clothing Physical and chemical properties Information on basic physical and chemical p General Information: Color: Odor: Odor threshold: Melting point/Melting range: Boiling point/Boiling range: Flammability (solid, gaseous): Explosion limits: Lower: Upper: Flash point: Decomposition temperature: pH-value: Viscosity: Kinematic viscosity: Dynamic viscosity: Solubility in / Miscibility with: Water: Partition coefficient (n-octanol/water):	White Nearly odorless No information available No information available No information available No information available No information available No information available 6.2-6.8 No information available No information available No information available No information available
Body protection: Protective work clothing Physical and chemical properties Information on basic physical and chemical p General Information: Color: Odor: Odor threshold: Melting point/Melting range: Boiling point/Boiling range: Flammability (solid, gaseous): Explosion limits: Lower: Upper: Flash point: Decomposition temperature: pH-value: Viscosity: Kinematic viscosity: Dynamic viscosity: Solubility in / Miscibility with: Water: Partition coefficient (n-octanol/water): Vapor pressure:	White Nearly odorless No information available No information available No information available No information available No information available No information available 6.2-6.8 No information available No information available Soluble.
Body protection: Protective work clothing Physical and chemical properties Information on basic physical and chemical p General Information: Color: Odor: Odor threshold: Melting point/Melting range: Boiling point/Boiling range: Flammability (solid, gaseous): Explosion limits: Lower: Upper: Flash point: Decomposition temperature: pH-value: Viscosity: Kinematic viscosity: Dynamic viscosity: Solubility in / Miscibility with: Water: Partition coefficient (n-octanol/water): Vapor pressure: Vapor pressure: Vapor pressure:	White Nearly odorless No information available No information available No information available No information available No information available No information available 6.2-6.8 No information available Soluble. No information available No information available
Body protection: Protective work clothing Physical and chemical properties Information on basic physical and chemical p General Information: Color: Odor: Odor threshold: Melting point/Melting range: Boiling point/Melting range: Flammability (solid, gaseous): Explosion limits: Lower: Upper: Flash point: Decomposition temperature: pH-value: Viscosity: Kinematic viscosity: Dynamic viscosity: Solubility in / Miscibility with: Water: Partition coefficient (n-octanol/water): Vapor pressure:	White Nearly odorless No information available No information available No information available No information available No information available No information available 6.2-6.8 No information available No information available No information available

• Other information

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Further physicochemical data are not available.

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- Appearance:
- · Form:

lyophilisate

~28,000 g/mol

Product does not present an explosion hazard.

- Important information on protection of health and environment, and on safety:
- Danger of explosion:
- Molecular weight

## **10** Stability and reactivity

- · Reactivity: No further relevant information available.
- · Chemical stability:
- Thermal decomposition / conditions to be avoided: Protein denaturation
- · Possibility of hazardous reactions: No further relevant information available.
- · Conditions to avoid: No further relevant information available.
- · Incompatible materials: Avoid contact with oxidizing agents.
- Hazardous decomposition products: In case of fire: see section 5

### **11 Toxicological information**

- · Information on toxicological effects
- · Acute toxicity: Based on available data, the classification criteria are not met.
- on the skin: Causes skin irritation.
- on the eye: Causes serious eye irritation.
- Sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- · Specific target organ toxicity single exposure: May cause respiratory irritation.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

## **12 Ecological information**

- · Toxicity:
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability: No further relevant information available.
- *Bioaccumulative potential:* No further relevant information available.
- *Mobility in soil:* No further relevant information available.
- · Results of PBT and vPvB assessment:
- · *PBT:* Not applicable.
- · **vPvB**: Not applicable.
- · Other adverse effects:
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system. Water hazard class 1 (Self-assessment): slightly hazardous for water

### **13 Disposal considerations**

- Waste treatment methods
- · Recommendation:

Dispose of in accordance with official regulations.

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Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

• **Recommendation:** Uncleaned packaging must be disposed of in the same way as the product in accordance with official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

Transport information		
UN-Number DOT, ADR, ADN, IMDG, IATA	Void	
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Void	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA Class	Void	
Packing group DOT, ADR, IMDG, IATA	Void	
Environmental hazards Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex . MARPOL73/78 and the IBC Code	II of Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	
UN ''Model Regulation'':	Void	

## **15 Regulatory information**

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): Substance is not listed.
- Hazardous Air Pollutants Substance is not listed.
- · Proposition 65 Substance is not listed.
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.

· Cancerogenity categories

- · EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value) Substance is not listed.
- NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed. • GHS label elements
- The substance is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms GHS07, GHS08
- · Signal word Danger
- · Hazard statements
- Causes skin irritation.

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Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. · Precautionary statements Wear protective gloves/protective clothing/eye protection/face protection. [In case of inadequate ventilation] wear respiratory protection. If on skin: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If experiencing respiratory symptoms: Call a poison center/doctor. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · 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: +49 6221 13840-35 • Date of preparation / last revision 03/21/2024 · Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation PBT: persistent, bioaccumulative, toxic substance (REACH) vPvB: very persistent, very bioaccumulative substance (REACH) REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals CLP: Regulation on classification, labelling and packaging of substances and mixtures bw: body weight 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 CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) 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

Skin Irritation 2: Skin corrosion/irritation – Category 2

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

Sensitization - Respiratory 1: Respiratory sensitisation – Category 1

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

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