

# SAFETY DATA SHEET

According To Regulation (EC) No 1907/2006 (REACH),  
(EC) No. 1272/2008 (CLP)

## TYPE 3, TYPE 4, DENSTONE, DIESTONE, CERESTONE, CEREDIESTONE

Version: 2.0  
Form No: 281002

Prep Date: 08.19.2015  
Rev. Date: 09.07.2019

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product Identifier

Name of Product	TYPE 3, TYPE 4, DENSTONE, DIESTONE, CERESTONE, CEREDIESTONE
SDS Form No	281002
Product Description	Mixture

#### 1.2 Relevant Identified Uses Of The Product And Uses Advised Against

Relevant Identified Uses	Modeling stones and plasters
Uses Advised Against	For professional use only

#### 1.3 Details Of The Supplier The Safety Data Sheet

Manufacturer/Supplier	PERA ALÇI DÖKÜM SANAYİ TİCARET - SAMİ BOYACI
Address	Muratpaşa Mah. Siteler Cad. No: 14/B Bayrampaşa/ İstanbul/ TURKEY
Telephone	+90 (212) 674 81 47
E-mail Address of Competent Person Responsible for the SDS	<a href="mailto:sarahanahid@gmail.com">sarahanahid@gmail.com</a>

#### 1.4 Emergency Telephone Number

Company Emergency	+90 (212) 674 81 47
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### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification Of The Product

##### 2.1.1 Classification According to Regulation (EC) No 1272/2008

This product is not classified as hazardous according to regulation (EC) 1272/2008 [CLP/GHS].

#### 2.2 Label elements

##### 2.2.1. Labeling According to Regulation (EC) No 1272/2008 [CLP<sup>2</sup>/GHS<sup>3</sup>]

Product Identifier	
Hazard Component for Labeling	<ul style="list-style-type: none"> <li>Not Applicable</li> </ul>
Hazard Pictograms	<ul style="list-style-type: none"> <li>Not Applicable</li> </ul>



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Signal Word	
• Not Applicable	
Hazard Statements	
-	
Precautionary Statements	
General	
-	
Prevention	
-	
Response	
-	
Storage	
-	
Disposal	
-	
Supplemental Hazard Information (EU) Statements	
No data available.	
2.2.2. Special Rules For Supplemental Label Elements For Certain Mixtures	
· None.	
2.2.3. Additional Labeling	
· Not Applicable	
2.3 Other Hazards	
Product is not classified as PBT/ vPvB according to Regulation (EC) No. 1907/2006, Annex XIII: None	

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Description Of The Substances

CAS <sup>4</sup> No	EC <sup>5</sup> No	Chemical Name	Conc. %	Classification according to Regulation (EC) No 1278/2008 (CLP)
26499-65-0	607-950-0	Plaster of Paris (Calcium Sulfate Hemihydrate)	90.0-100.0	It is not classified as hazardous
12125-02-9	235-186-4	Ammonium chloride	< 5.0	Acute Tox. 4; H302 Eye Irrit. 2; H319

#### 3.2 Additional information

Specific Concentration limits: None

M-Factor: None



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Notes: None

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

##### 4.1.1 General notes

- When in doubt or if symptoms are observed, get medical advice.

##### 4.1.2 Following inhalation

- If inhaled, remove to fresh air. If not breathing, give artificial respiration.
- If irritation or other symptoms persist, get medical attention.
- Get medical attention.



##### 4.1.3 Following skin contact

- Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available.
- Get medical attention if irritation persists.



##### 4.1.4 Following eye contact

- Check for and remove any contact lenses.
- Rinse out with water for at least 15 minutes with the eyelid held wide open.
- Do not rub your eye.
- Get medical attention if irritation persists.



##### 4.1.5 Following ingestion

- May cause gastrointestinal discomfort and intestinal blockage.
- If swallowed, drink 1 or 2 glasses of water to dilute.
- Never give anything by mouth to an unconscious or convulsing person.
- Get immediate medical attention.



##### 4.1.6 Self-protection of the first aider

- First aid assistant: Pay attention to self-protection!

#### 4.2. Most important symptoms and effects, both acute and delayed

##### · Potential acute health effects

Eye contact: May cause eye irritation

Inhalation: Inhalation of dust may cause mucous membrane and respiratory irritation.

Skin contact: When mixed with water, this material hardens and becomes very hot – may cause burns.

Ingestion: No data available

#### 4.3. Indication of any immediate medical attention and special treatment needed

- Immediate medical attention is required for ingestion.



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### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media:

##### Suitable extinguishing media

- Use an extinguishing agent suitable for the surrounding fire. Water may cause product to solidify.

##### Unsuitable extinguishing media

- No data available

#### 5.2 Special hazards arising from the product.

- The product does not burn but will decompose producing calcium oxide and sulfur oxide.
- Do not breathe in smoke.
- Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

#### 5.3 Advice for fire-fighters

- Wear full chemical protective clothing. In case of fire: Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves.
- Firefighters should wear full emergency equipment and approved positive pressure self-contained breathing apparatus.
- Cool fire exposed containers with water.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

##### 6.1.1 For non-emergency personnel

- Avoid contact with eyes.
- No action shall be taken involving any personal risk or without suitable training.
- Keep unnecessary and unprotected personnel from entering.
- Do not touch or walk through spilled material.
- Evacuate the accident area.
- Refer to protective measures listed in section 7 and 8.
- Wear appropriate personal protective equipment as described in section 8.

##### 6.1.2. 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".

#### 6.2 Environmental precautions

- Do not empty into drains and sewers.
- Keep from entering to water and ground water systems.
- Spillages or uncontrolled discharges into watercourses must be alerted to the Environmental Agency or other appropriate regulatory body.

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### 6.3 Methods and material for containment and cleaning up

#### 6.3.1 For containment

- Control personal contact by using protective equipment as required
- Take up contaminated material and pass on for further processing.
- Contain for disposal according to local / national regulations.

#### 6.3.2 For cleaning up

- Collect using dustless method (HEPA vacuum or wet method) and place in appropriate container for use.
- Do not use compressed air.
- Move containers from spill area.
- Place spilled material in a designated, labeled waste container.
- Dispose of via a licensed waste disposal contractor.
- Control personal contact by using protective equipment.

#### 6.3.3 Other information

- Dispose of waste material according to local, state and federal regulations.

### 6.4 Reference to other sections

- See Section 1 for emergency contact information.
- See Section 8 for information on appropriate personal protective equipment.
- See Section 13 for additional waste treatment information.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### 7.1.1 Protective measures

##### Personal preventions

- Avoid contact with skin and eyes.
- Wear personal protection equipment. Refer to chapter 8.
- Do not eat, drink, smoke or sneeze at the workplace.
- Dangerous areas must be limited and marked with appropriate warning and safety signs.
- Fill only into labeled container.
- Always wash hands with soap and water after handling.
- Working areas must be arranged in such a manner that they can be cleaned at all times.
- Take off all contaminated clothing immediately and never use before washing.
- Ensure adequate ventilation and, if necessary, exhaust ventilation when handling or transferring the product.
- Ensure that the occupational exposure limit value/s (OEL) and/or other limit values are complied with.

#### 7.1.2 Measures to Prevent Fire

- See section 5.



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### 7.1.3 Measures to Protect Environment

- Dispose of waste material according to local, state and federal regulations.

### 7.1.4 Advice on general occupational hygiene

- Use good occupational work practice.
- Comply with the health and safety at work laws.
- Remove contaminated clothing and protective equipment before entering eating areas.

### 7.2 Conditions for safe storage, including any incompatibilities

- Store in accordance with local regulations.
- Store away from ignition sources, food and drink.
- Keep container tightly closed.
- Store in original containers.
- Store in a cool, dry, well-ventilated area.
- Avoid contact with incompatible materials
- Avoid physical damage to containers.
- Please give the priority usage for damaged packaged.

STORAGE INCOMPATIBILITY

None

Advice on common storage

- See also instructions on the label.
- Store in a cool, dry, well-ventilated area.
- Keep away from food, drink and animal feeding stuffs.
- Store away from incompatible materials and foodstuff containers.
- Protect from physical damage.
- Professional uses: Model stones, plaster and die materials for dental technicians.

### 7.3 Specific precautions on storage

- No data available

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Preventive industrial and medical examinations must be carried out according to the application area. Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.

Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

#### 8.1.1 Occupational exposure limits

Plaster of Paris (Calcium Sulfate Hemihydrate) (as PNOC)	5 mg/m <sup>3</sup> TWA OSHA PEL (respirable fraction)
	15 mg/m <sup>3</sup> TWA OSHA PEL (total dust)
	4 mg/m <sup>3</sup> TWA UK WEL (respirable aerosol)



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Version: 2.0  
Form No: 281002

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	10 mg/m <sup>3</sup> TWA UK WEL (inhalable aerosol)
Ammonium chloride (as fume or respirable dust)	10 mg/m <sup>3</sup> TWA, 20 mg/m <sup>3</sup> STEL ACGIH TLV (fume)
	10 mg/m <sup>3</sup> TWA, 20 mg/m <sup>3</sup> STEL Belgium OEL
	10 mg/m <sup>3</sup> TWA, 20 mg/m <sup>3</sup> STEL UK WEL

### 8.2 Exposure controls

Adequate ventilation should be used during processing.

Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### 8.2.1 Appropriate engineering controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Ensure that eyewash stations and safety showers are proximal to the work-station location.

Keep away from food, drink and animal feeding stuffs.

Use personal protective equipment according to EN<sup>6</sup> standards.

See Section 7.

#### 8.2.2 Individual protection measures, such as personal protective equipment

##### 8.2.2.1 Eye / Face protection:

- Wear safety glasses
- In the event of heated product exposure, face shield must be used and remove contact lens as soon as practicable.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. (EN 166)



##### 8.2.2.2 Skin protection

###### Hand protection

- Use protective 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. (EN 374)
- The glove material has to be impermeable and resistant to the product.
- For prolonged use or in dusty conditions, wear rubber gloves



###### Body protection

- Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Protective work clothing such as lab coat.



###### Other protection

- Handle in accordance with good industrial hygiene and safety practice.
- Wash hands before breaks and at the end of workday.
- Prophylactic use of protective ointment (barrier cream) is recommended.

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Version: 2.0  
Form No: 281002

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### 8.2.2.3 Respiratory protection

- Use a respiratory protective device with particle filter/dust mask CEN with an approved standard if a risk assessment indicates this is necessary.
- Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 or other applicable regulations and good industrial hygiene practice.



### 8.2.3 Environmental exposure controls

- Legislation for the protection of the environment must be met in full.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Form/Physical state	Powder
Color	With variety of colors
Odor	Odorless
pH	No data available
Melting Point/ Freezing Point (°C)	145.0 (293 °F)
Flash point (°C)	No data available
Decomposition Temperature (°C)	1450.0 (2642 °F)
Flammable properties	Non-flammable
Refractive Index	No data available
Oxidising Properties	Not oxidizer
Explosive properties	Not explosive
Explosion limits, %	No data available
Vapor pressure	No data available
Vapor density	No data available
Autoignition point (°C)	No data available
Boiling Point (°C)	No data available
Relative Density	2.50-3.50
Water Solubility	%0.2
Bulk Density	No data available
Specific Gravity (g/cm <sup>3</sup> )	No data available
Viscosity	No data available

### 9.2 Other Information

Other physical and chemical parameters

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

- Stable under recommended storage and handling conditions. (See section 7.)





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10.2	<b>Chemical stability</b>
	· Stable under recommended storage and handling conditions. (See section 7.)
10.3	<b>Possibility of hazardous reactions</b>
	· None known
10.4	<b>Conditions to avoid:</b>
	· Avoid unintentional contact with water. Product will harden and produce heat.
10.5	<b>Incompatible materials:</b>
	· Avoid acids and oxidizing agents
10.6	<b>Hazardous decomposition products:</b>
	· Thermal decomposition (above 2642 °F/ 1450 °C) may generate calcium oxide and sulfur dioxide

### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

Based on our experience and the information available, adverse health effects are expected if not handled as recommended with suitable precautions for designated uses. The product has not been tested in animal experiments.

#### 11.2 Acute toxicity

- **Plaster of Paris CAS No: 26499-65-0**  
Acute toxicity LD50 (Oral, rat): >2000 mg/kg  
Acute toxicity LC50 (Inhalation, rat): > 3.26 mg/L (4 h) (structurally similar chemical)
- **Ammonium chloride CAS No: 12125-02-9**  
Acute toxicity LD50 (Oral, rat): 1410 mg/kg  
Acute toxicity LD50 (Dermal, rat): >2000 mg/kg

#### 11.3 Skin corrosion/irritation and Eye damage/irritation:

- Skin corrosion/irritation: No data available
- Eye damage/irritation: No data available

#### 11.4 CMR effects (Carcinogenity) :

- The product does not have carcinogenic effect.

#### 11.5 CMR effects (Mutagenicity and Toxicity for reproduction) :

The product is not mutagenic or toxic for reproduction.

#### 11.6 Other Toxicological Effects:

Allergic Effects	No data available
Effects on Repeated Doses Chronic Exposures	No data available
Sensitization	No data available
Developmental Toxicity (Teratogenicity)	No data available



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## TYPE 3, TYPE 4, DENSTONE, DIESTONE, CERESTONE, CEREDIESTONE

Version: 2.0  
Form No: 281002

Prep Date: 08.19.2015  
Rev. Date: 09.07.2019

Fertility	No data available
<b>11.7 STOT-single/repeated exposures:</b>	
STOT-single exposure	The substance is not classified as a specific target organ toxicant.
STOT-repeated exposure	The substance is not classified as a specific target organ toxicant.
<b>11.8 Symptoms related to the physical, chemical and toxicological characteristics:</b>	
In case of inhalation	Inhalation of dust may cause irritation to the nose, throat and upper respiratory tract with coughing and shortness of breath.
In case of skin contact	Dust may cause irritation. When mixed with water, the plaster of paris hardens and becomes hot – may cause skin burns
In case of eye contact	Dust may cause mechanical irritation and possible injury.
In case of ingestion	No adverse effects expected for normal, incidental ingestion. Large amounts may cause gastrointestinal blockage and discomfort.
<b>11.9 Additional Toxicological Information:</b>	
<ul style="list-style-type: none"> <li>· Toxicological classifications are based on available knowledge and information</li> <li>· The special effects to health are considered by taking into account the information in section 3.</li> </ul>	

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity:

- **Plaster of Paris CAS No: 26499-65-0**  
LC50 (96 hr): >1970 mg/L (*Pimephales promelas*)  
LD50 (48 hr): >79 mg/L (*Daphnia magna*)  
EC50 (72 hr): >79 mg/L (*Pseudokirchnerella subcapitata*)
- **Ammonium chloride CAS No: 12125-02-9**  
LC50 (96 hr): 46.27 mg/L (*Prosopium williamsoni*)  
EC50 (48 hr): 136.6 mg/L (*Daphnia magna*)  
EC50 (5 day): 1300 mg/L (*Chlorella vulgaris*)

### 12.2 Persistence and degradability

Abiotic Degradation: No data available  
Physical- and Photo-chemical elimination: No data available  
Biodegradation: Biodegradation is not applicable to inorganic substances such plaster of paris, calcium sulfate hemihydrate  
The solid matter content can be separated mechanically in a sewage plant.

### 12.3 Bioaccumulative potential

Partition coefficient n-octanol /water (log Kow): No data available  
Bioconcentration factor (BCF): No data available

### 12.4 Mobility in Soil



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## TYPE 3, TYPE 4, DENSTONE, DIESTONE, CERESTONE, CEREDIESTONE

Version: 2.0  
Form No: 281002

Prep Date: 08.19.2015  
Rev. Date: 09.07.2019

Solubility in water: No data available  
Known or predicted distribution to environmental compartments: No data available  
Adsorption/Desorption: No data available

### 12.5 Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 product is not fulfilling PBT (persistent/bioaccumulative/toxic)/vPvB (very persistent/very bioaccumulative) criteria

### 12.6 Other adverse effects

See the sections 6, 7, 13, 14 and 15.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods

#### 13.1.1 Product / Packaging disposal

- The generation of waste should be avoided or minimized wherever possible.
- Note that properties of a material may change in use, and recycling or reuse may not always be appropriate
- When recycling of the product is not possible, disposal to landfill or incineration in accordance with all applicable government laws and regulations is recommended.
- Disposal according to local authority regulations.
- According to the European Waste Catalogue, waste codes are not product specific, but application specific. Waste codes should be assigned by the user.
- Contaminated packaging can be re-used after emptying and cleaning.

#### 13.1.2 Waste Treatment-Relevant Information

- When in compliance with the Environmental Protection (Duty of Care) Regulations.

#### 13.1.3 Sewage Disposal-Relevant Information

- None

#### 13.1.4 Other Disposal Recommendations

- Dispose of chemicals waste or in accordance with local regulations.
- Follow all applicable local laws, rules and regulations regarding the proper disposal of this material.
- If this product has been altered or contaminated with other hazardous materials, appropriate waste analysis may be necessary to determine proper method for disposal.
- Dispose of waste according to applicable local, state, and federal regulations.

## 14. TRANSPORT INFORMATION

	ADR <sup>7</sup> /RID <sup>8</sup>	ADNR <sup>9</sup>	IMDG <sup>10</sup>	ICAO <sup>11</sup> /IATA <sup>12</sup>
TRANSPORTATION	Road	River	Marine	Airways
14.1 UN No.	-	-	-	



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Rev. Date: 09.07.2019

14.2 Un Proper Shipping Name	The product is not hazardous for transportation			
Symbols	-	-	-	-
HIN No	-	-	-	-
Tunnel Restriction Code	-	-	-	-
14.3 Transport Hazard Class	-	-	-	-
14.4. Packaging Group	-	-	-	-
14.5 Environmental Hazards	-	-	-	-
14.6 Special Precautions For Users	Not Available			
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	Not Available			

### 15. REGULATORY INFORMATION

#### 15.1 Safety, Health And Environmental Regulations / Legislation Specific For The Substance or Mixture

No data available

##### 15.1.1 HAZARD

CLP classification according to Annex VI of CLP (Regulation (EC) No 1272/2008)

#### INTERNATIONAL REGULATIONS

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 (REACH) and ISO 11014:2009.

This product is classified according to EU Directive GHS/CLP.

European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR 2015)

#### 15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for this substance/ mixture by the supplier.

### 16. OTHER INFORMATION

#### 16.1 Other information

- For additional information regarding products please contact the PERA ALÇI DÖKÜM SANAYİ TİCARET - SAMİ BOYACI The above information complies with the 1907/2006 Directives and their amendments.

#### 16.2 Related Person

- AYANSAN CHEMICAL CONSULTANCY PLASTIC INC. AND TRD. LTD. CO.



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- [sarahanahid@gmail.com](mailto:sarahanahid@gmail.com)

### 16.3 Revision Date, Version and SDS no

- Date : July 9, 2019
- Version : 2.0
- SDS No : 281002

### 16.4 Reason of re-issue

- Compiling according to Regulation (EC) No 1272/2008

### 16.5 Relevant H- and EUH-phrases:

H302 Harmful if swallowed

H319 Causes serious eye irritation

### 16.6 Legal disclaimer

- The purpose of the above information is to describe the products only in terms of health and safety requirements.
- The information given should not, therefore, be construed as guaranteeing specific properties or as specification.
- Customers should satisfy themselves as to the suitability and completeness of such information for their own particular use.
- The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.
- The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.
- The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. Due to the many factors outside our control when using this product, we cannot accept liability for any injury, accident, loss or damage caused through its use.

<sup>1</sup> SDS: Safety Data Sheet

<sup>2</sup> CLP: Classification Labelling and Packaging

<sup>3</sup> GHS: Global Harmonised System

<sup>4</sup> CAS : Chemical Abstract Service

<sup>5</sup> EC : European Community number

<sup>6</sup> EN Standards: Personal Protective Equipment Standards Determined by CEN (European Committee for Standardization)

<sup>7</sup> ADR: Accord Dangereux Routier (European regulations concerning the international transport of dangerous goods by road)

<sup>8</sup> RID: Regulations Concerning the International Transport of Dangerous Goods by Rail (European law)



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<sup>9</sup> ADN: Regulation for the Carriage of Dangerous Substances on the Rhine (EU)

<sup>10</sup> IMDG: International Maritime Dangerous Goods (United Nations)

<sup>11</sup> ICAO: International Civil Aviation Organization

<sup>12</sup> IATA: International Air Transport Association

