

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

071048172

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

071048156 071048164 071048248 071048263

**MATERIAL SAFETY DATA SHEET**



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JANUARY 2013

**SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

PRODUCT NAME  
GAMMA B, ALPHA A, ALPHA C - ALUMINA POWDERS

**SECTION 2. HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: White odorless powder.

POTENTIAL HEALTH

EFFECTS EYES: May irritate eyes.

SKIN: Not absorbed through skin; may cause abrasions.

INGESTION: No known adverse effects, but ingestion is not recommended.

INHALATION: Acute: Coughing, shortness of breath. Chronic: May affect breathing capacity.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

CHRONIC EFFECTS: No adverse effects expected.

MEDICAL CONDITIONS AGGRAVATED: Not expected to be a health hazard.

**SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Wt.%	CAS	EINECS
Aluminum oxide	> 99	1344-28-1	215-691-6

**SECTION 4. FIRST AID MEASURES**

EYES: Irrigate with large amounts of water. Obtain medical assistance.

SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: Obtain first aid or medical assistance, if needed.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.



**SECTION 5. FIRE FIGHTING MEASURES**

FLASHPOINT AND METHOD: Not Applicable

GENERAL HAZARD: Not considered to be a fire hazard.

EXTINGUISHING MEDIA: Use any means suitable for extinguishing surrounding fire.

EXPLOSION HAZARDS: Not expected to be an explosion hazard.

FIRE FIGHTING PROCEDURES: Use protective clothing and breathing equipment appropriate for the surrounding fire and to control aluminum oxide dust that may be dispersed in the air.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

SMALL SPILL: Normal cleanup procedures, using respirators if necessary. Dispose using applicable federal, state, and local laws.

LARGE SPILL: Normal cleanup procedures, using respirators if necessary. Dispose using applicable federal, state, and local laws.

**SECTION 7. HANDLING AND STORAGE**

GENERAL PROCEDURES: Handle with adequate ventilation for nuisance dust. See OSHA 29CFR1910.94 (Ventilation) and 29CFR1910.1000 (Air Contaminants).

STORAGE: Store in a cool dry place.

SHELF LIFE: Indefinite.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Aluminum oxide	TWA	NL ppm <sup>[1]</sup>	15;5 mg/m <sup>3</sup> <sup>[1]</sup>	NL ppm	10 mg/m <sup>3</sup>	NL ppm	NL mg/m <sup>3</sup>
	STEL	NL ppm	NL mg/m <sup>3</sup>	NL ppm	NL mg/m <sup>3</sup>	NL ppm	NL mg/m <sup>3</sup>
OSHA TABLE COMMENTS: 1. NL = Not Listed							

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**PERSONAL PROTECTIVE EQUIPMENT**

EYES AND FACE: Eye protection is recommended, please see OSHA 29CFR1910.133.

SKIN: Protective gloves, as desired by user.

RESPIRATORY: As needed, an approved dust respirator should be used; see OSHA 29CFR1910.134.

**SECTION 9 . PHYSICAL AND CHEMICAL PROPERTIES**

Chemical Name Solubility in

Water Specific

Gravity

Aluminum oxide Insoluble 3.9

PHYSICAL STATE: Solid

ODOR: None

APPEARANCE: Fine Powder

COLOR: White

pH: Not Applicable

PERCENT VOLATILE: None

VAPOR PRESSURE: Not Applicable VAPOR DENSITY: Not Applicable BOILING POINT: Not Applicable FREEZING POINT:

Not Applicable MELTING POINT: 2000°C

FLASHPOINT AND METHOD: Not Applicable

SOLUBILITY IN WATER: Insoluble

EVAPORATION RATE: Not Applicable

SPECIFIC GRAVITY: 3.600 to 3.9

VISCOSITY: Not Applicable

WASTE DISPOSAL	Comply with Federal, State and Local Regulations.
HANDLING & STORAGE	Avoid direct sunlight during prolonged storage.
OTHER	HMIS: HEALTH=1 Slight; FLAMMABILITY=0 Minimal;
SECTION VIII-SPECIAL PROTECTION INFORMATION	
VENTILATION	MECHANICAL-Adequate ventilation to reduce levels of
SPECIFIC PERSONAL PROTECTIVE EQUIPMENT	
RESPIRATORY:	Use NIOSH/MSHA approved respirator where dust may
EYE:	Chemical splash goggles.
GLOVES:	Rubber or neoprene gloves.
OTHER CLOTHING & EQUIPMENT	Barrier cream recommended for persons with unusual
WORK-HYGIENIC PRACTICES	Wash thoroughly after handling.



**SECTION 10. STABILITY AND REACTIVITY**

STABLE: Yes  
 HAZARDOUS POLYMERIZATION: No  
 STABILITY: Stable under ordinary conditions of use and storage.  
 POLYMERIZATION: Will not occur.  
 HAZARDOUS DECOMPOSITION PRODUCTS: No Applicable Information Found  
 INCOMPATIBLE MATERIALS: Chlorine trifluoride, Ethylene oxide.

**SECTION 11. TOXICOLOGICAL INFORMATION**

EYE EFFECTS: Irritation likely to occur after human eye contact.

SKIN EFFECTS: This material may cause skin sensitization.

**CARCINOGENICITY**

Chemical Name	NTP Status	IARC Status	OSHA Status
Aluminum oxide	Not known or anticipated to be and NTP carcinogen.	Not listed.	Not listed.

IARC: Not listed.

NTP: Not known or anticipated to be an NTP Carcinogen.

**SECTION 12. ECOLOGICAL INFORMATION**

ENVIRONMENTAL DATA: No Applicable Information Found  
 ECOTOXICOLOGICAL INFORMATION: No Applicable Information Found  
 CHEMICAL FATE INFORMATION: No Applicable Information Found

**SECTION 13. DISPOSAL CONSIDERATIONS**

DISPOSAL METHOD: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

RCRA/EPA WASTE INFORMATION: Not federally regulated.

**SECTION 14. DISPOSAL CONSIDERATIONS**

DOT (DEPARTMENT OF TRANSPORTATION) U.S. SURFACE FREIGHT CLASS: Not regulated.  
 OTHER SHIPPING INFORMATION: Not classified as a marine pollutant.  
 CANADA TRANSPORT OF DANGEROUS GOODS TDG NOTE: Not regulated.

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**SECTION 15. DISPOSAL CONSIDERATIONS**

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: None

FIRE: No    PRESSURE GENERATING: No    REACTIVITY: No    ACUTE: Yes    CHRONIC: No

313 REPORTABLE INGREDIENTS: Not listed

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT) CERCLA

REGULATORY: Not listed

TSCA (TOXIC SUBSTANCE CONTROL ACT)

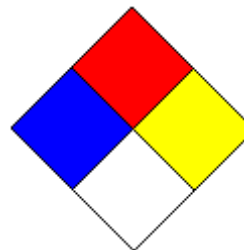
Chemical Name	CAS
Aluminum oxide	1344-28-1

TSCA REGULATORY: Not listed

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): Listed.

NFPA CODES



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1-800-255-3924

revision date 4/7/2016



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## SECTION 1 – IDENTIFICATION

**1.1 Product identifier:** Alumina Powders

## 2. HAZARD IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### **Classification according to Regulation (EC) No 1272/2008**

The product is not classified as hazardous according to OSHA GHS regulations within the United States.

The product is not classified as hazardous according to the CLP regulation.

#### **Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.**

#### **Information concerning particular hazards for human and environment:**

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

#### **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

#### **Additional information:**

There are no other hazards not otherwise classified that have been identified.

0 percent of the mixture consists of component(s) of unknown toxicity

### 2.2 Label elements

#### **Labelling according to Regulation (EC) No 1272/2008**

The product is not classified as hazardous according to OSHA GHS regulations within the United States. This product does not have a classification according to the CLP regulation.

**Hazard pictograms** Not Regulated

**Signal word** Not Regulated

**Hazard-determining components of labelling:** None.

**Hazard statements** Not Regulated

**Hazard-determining components of labelling:** None.

**Hazard statements** Not Regulated

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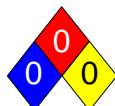
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Precautionary statements Not Regulated

Hazard description:

WHMIS-symbols: Not hazardous under WHMIS.

NFPA ratings (scale 0 - 4)



Health = 0  
Fire = 0  
Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 0  
Fire = 0  
Reactivity = 0

### HMIS Long Term Health Hazard Substances

None of the ingredients are listed.

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

## 3. Composition/information on ingredients

### 3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 1344-28-1 EINECS: 215-691-6	aluminium oxide substance with a Community workplace exposure limit	98,7%
CAS: 1305-78-8 EINECS: 215-138-9	calcium oxide ☒ R37/38-41 Eye Dam. 1, H318 Skin Irrit. 2, H315; STOT SE 3, H335	< 0,3%
CAS: 1309-37-1 EINECS: 215-168-2	diiron trioxide / iron (III) oxide substance with a Community workplace exposure limit	< 0,2%

### Additional information:

For the listed ingredients, the identity and exact percentages are being withheld as a trade secret. For the wording of the listed risk phrases refer to section 16.



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## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
  - Brush off loose particles from skin.
  - Immediately rinse with water.
  - If skin irritation is experienced, consult a doctor.
- **After eye contact:**
  - Remove contact lenses if worn, if possible.
  - Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
  - Rinse out mouth and then drink plenty of water.
  - Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**
  - Breathing difficulty
  - Coughing
  - Slight irritant effect on skin and mucous membranes.
  - Slight irritant effect on eyes.
- **Hazards** Danger of impaired breathing.
- **4.3 Indication of any immediate medical attention and special treatment needed**
  - No further relevant information available.

## 5. Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
  - The product is not flammable.
  - Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** None.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
  - Protective equipment:**
    - Wear self-contained respiratory protective device.
    - Wear fully protective suit.
  - Additional information** No further relevant information available.

## 6. Accidental release measures

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

- Ensure adequate ventilation
- Avoid formation of dust.
- Do not breathe dust.
- For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

### 6.2 Environmental precautions: Avoid release to the environment.

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

- Pick up mechanically.
- Dispose of the material collected according to regulations.

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Send for recovery or disposal in suitable receptacles.

### 6.4 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

### 7.1 Precautions for safe handling

Use only in well ventilated areas.

Prevent formation of dust.

Any unavoidable deposit of dust must be regularly removed.

**Information about fire - and explosion protection:** No special measures required.

### 7.2 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:

Store away from foodstuffs.

Do not store together with acids.

Do not store together with alkalis (caustic solutions).

**Further information about storage conditions:** Keep container tightly sealed.

**7.3 Specific end use(s)** No further relevant information available.

## 8. Exposure controls/personal protection

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

### 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:	
<b>1344-28-1 aluminium oxide</b>	
PEL (USA)	Long-term value: 15*; 15** mg/m <sup>3</sup> *Total dust; ** Respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m <sup>3</sup> as Al*Total dust**Respirable/pyro powd./welding f.
TLV (USA)	Long-term value: 1* mg/m <sup>3</sup> as Al; *as respirable fraction
EL (Canada)	Long-term value: 1,0 mg/m <sup>3</sup> respirable, as Al
EV (Canada)	Long-term value: 10 mg/m <sup>3</sup> total dust
<b>1305-78-8 calcium oxide</b>	
PEL (USA)	Long-term value: 5 mg/m <sup>3</sup>
REL (USA)	Long-term value: 2 mg/m <sup>3</sup>
TLV (USA)	Long-term value: 2 mg/m <sup>3</sup>
EL (Canada)	Long-term value: 2 mg/m <sup>3</sup>
EV (Canada)	Long-term value: 2 mg/m <sup>3</sup>

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### 1309-37-1 diiron trioxide / iron (III) oxide

PEL (USA)	Long-term value: 10* 15** 5*** mg/m <sup>3</sup> *Fume; Rouge: **Total dust, ***respirable
REL (USA)	Long-term value: 5 mg/m <sup>3</sup> Dust & fume, as Fe
TLV (USA)	Long-term value: 5* mg/m <sup>3</sup> *as respirable fraction
EL (Canada)	Short-term value: 10** mg/m <sup>3</sup> Long-term value: 5* 10*** 3**** mg/m <sup>3</sup> *dust & fume**fume; Rouge: ***total dust****resp.
EV (Canada)	Long-term value: 5* 10** mg/m <sup>3</sup> *respirable, including Rouge;**total dust

**DNELs** No further relevant information available.

**PNECs** No further relevant information available.

**Additional information:** The lists valid during the making were used as basis.

## 8.2 Exposure controls

### Personal protective equipment:

#### General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed.

Do not breathe dust.

Avoid contact with the eyes and skin.

#### Respiratory protection:

Not required under normal conditions of use.

Use suitable respiratory protective device when high concentrations are present. For large spills, respiratory protection may be advisable.

#### Protection of hands:

Wear gloves for the protection against mechanical hazards according to NIOSH or EN 388.

#### Eye protection:



Safety glasses

#### Body protection:

Not required under normal conditions of use. Protection may be required for spills.

**Limitation and supervision of exposure into the environment** Avoid release to the environment.

**Risk management measures** See Section 7 for additional information.

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## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties General Information

#### Appearance:

**Form:** Crystalline powder  
**Colour:** Whitish  
**Odour:** Odorless  
**Odour threshold:** Not determined.

**pH-value at 20 °C (68 °F):** 8,0-9,5

#### Change in condition

**Melting point/Melting range:** >2000 °C (>3632 °F)  
**Boiling point/Boiling range:** >2900 °C (>5252 °F)

#### Flash point:

Not applicable.

**Flammability (solid, gaseous):** Not determined.

**Auto/Self-ignition temperature:** Not determined.

**Decomposition temperature:** Not determined.

**Self-igniting:** Product is not self-igniting.

**Danger of explosion:** Product does not present an explosion hazard.

#### Explosion limits:

**Lower:** Not determined.

**Upper:** Not determined.

#### Vapor pressure:

Not applicable.

**Density at 20 °C (68 °F):** 3,9 g/cm<sup>3</sup> (32,546 lbs/gal)

**Relative density** Not determined.

**Vapor density** Not applicable.

**Evaporation rate** Not applicable.

#### Solubility in / Miscibility with

**water:** Insoluble.

**Partition coefficient (n-octanol/water):** Not determined.

#### Viscosity:

**Dynamic:** Not applicable.

**Kinematic:** Not applicable.

### 9.2 Other information

No further relevant information available.

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## 10. Stability and reactivity

### 10.1 Reactivity

### 10.2 Chemical stability

#### Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

### 10.3 Possibility of hazardous reactions

Reacts with strong acids and alkali.

Reacts with strong oxidising agents.

**10.4 Conditions to avoid** No further relevant information available.

**10.5 Incompatible materials:** Oxidizers, strong bases, strong acids

**10.6 Hazardous decomposition products:** Toxic metal compounds

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity:

**LD/LC50 values relevant for classification:** None.

#### Primary irritant effect:

**on the skin:** Slight irritant effect on skin and mucous membranes.

**on the eye:** Slight irritant effect on eyes.

**Sensitisation:** No sensitising effects known.

**Subacute to chronic toxicity:** No further relevant information available.

#### Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

**Acute effects (acute toxicity, irritation and corrosivity):** None.

**Repeated dose toxicity:** No further relevant information available.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** None.

## 12. Ecological information

### 12.1 Toxicity

**Aquatic toxicity:** No further relevant information available.

**12.2 Persistence and degradability** No further relevant information available.

**12.3 Bioaccumulative potential** No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

#### Additional ecological information:

**General notes:** Generally not hazardous for water

### 12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Other adverse effects** No further relevant information available.

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## 13. Disposal considerations

### 13.1 Waste treatment methods

#### Recommendation

Smaller quantities can be disposed of with household waste.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

#### Uncleaned packaging:

**Recommendation:** Disposal must be made according to official regulations.

## 14. Transport information

### 14.1 UN-Number

DOT, ADR, ADN, IMDG, IATA Not Regulated

### 14.2 UN proper shipping name

DOT, ADR, ADN, IMDG, IATA Not Regulated

### 14.3 Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA  
Class Not Regulated

### 14.4 Packing group

DOT, ADR, IMDG, IATA Not Regulated

### 14.5 Environmental hazards:

Marine pollutant: No

### 14.6 Special precautions for user

Not applicable.

### 14.7 Transport in bulk according to Annex II of

MARPOL73/78 and the IBCCode Not applicable.

UN "Model Regulation":

## 15. Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### United States (USA)

##### SARA

#### Section 355 (extremely hazardous substances):

None of the ingredients are listed.

#### Section 313 (Specific toxic chemical listings):

All ingredients are listed.

#### TSCA (Toxic Substances Control Act):

All ingredients are listed.

#### Proposition 65 (California):

#### Chemicals known to cause cancer:

Present in trace quantities.

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### Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

### Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

### Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

### Carcinogenic Categories

#### EPA (Environmental Protection Agency)

None of the ingredients are listed.

#### IARC (International Agency for Research on Cancer)

1309-37-1 diiron trioxide / iron (III) oxide

3

#### TLV (Threshold Limit Value established by ACGIH)

1344-28-1 aluminium oxide

A4

1309-37-1 diiron trioxide / iron (III) oxide

A4

#### NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

### Canada

#### Canadian Domestic Substances List (DSL)

All ingredients are listed.

#### Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients are listed.

#### Canadian Ingredient Disclosure list (limit 1%)

All ingredients are listed.

### Other regulations, limitations and prohibitive regulations

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

#### Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients are listed.

### 15.2 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.

### Relevant phrases

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

R37/38 Irritating to respiratory system and skin.

R41 Risk of serious damage to eyes.

### Abbreviations and acronyms:

ADR: Accord européen sur le transport 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

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

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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)  
WHMIS: Workplace Hazardous Materials Information System (Canada)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3