

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/03/2017

Reviewed on 05/03/2017

* 1 Identification

- **Product Identifier**
- **Trade name: Universal Water Finding Paste**
- **Product Number:** US patent Nr. 6.376.250 B1
- **Relevant identified uses of the substance or mixture and uses advised against:**
Detects the Presence of Water and Water/Alcohols-Additives
- **Product Description** Detects the Presence of Water and Water/Alcohols-Additives
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
UNIVERSAL WATER FINDER, INC
840 BOND STREET
ELIZABETH, NJ
07201 USA
+1-908-994-1892
- **Emergency telephone number:** +1-908-405-1919

* 2 Hazard(s) Identification

- **Classification of the substance or mixture:**



GHS08 Health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 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:**



GHS07



GHS08

- **Signal word:** Warning

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

Calcium Oxide

- **Hazard statements:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

- **Precautionary statements:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

(Contd. on page 2)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/03/2017

Reviewed on 05/03/2017

Trade name: Universal Water Finding Paste

- P302+P352 IF ON SKIN: Wash with plenty of water.
 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.
 P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.

· **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

· NFPA ratings (scale 0 - 4)



· HMIS-ratings (scale 0 - 4)



· **Hazard(s) not otherwise classified (HNOC):** None known

* 3 Composition/Information on Ingredients

· Non-hazardous components:

25322-69-4	Polypropylene Glycol	25-50%
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· Chemical characterization: Mixtures

· **Description:** Mixture: consisting of the following components.

· Dangerous Components:

CAS: 1317-65-3	Calcium Carbonate	25-50%
CAS: 1305-78-8 RTECS: EW 3100000	Calcium Oxide ⚠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302	15-35%
CAS: 112945-52-5	Amorphous Silica	2-12%
CAS: 9003-11-6	Poly(ethylene glycol)-block-poly(propylene glycol)-block-poly(ethylene glycol) ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319	2-12%
CAS: 555-31-7 RTECS: BD 0975000	aluminium-tri-isopropoxide ⚠ Flam. Sol. 1, H228	2-12%
CAS: 77-09-8	phenolphthalein ⚠ Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361	≤ 2.5%

· Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

(Contd. on page 3)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/03/2017

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Trade name: Universal Water Finding Paste

* 4 First-Aid Measures

- **Description of first aid measures:**
- **General information:**
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.
- **After inhalation:**
Supply fresh air; consult doctor in case of complaints.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
Immediately wash skin with soap and plenty of water for at least 20 minutes.
If skin irritation occurs, consult a doctor.
- **After eye contact:**
Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- **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:**
Acrid smoke/fumes/carbon monoxide, carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product. Small amounts of alkaline dust could also be released.
- **Advice for firefighters:**
- **Protective equipment:**
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

* 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/surface or ground water.
- **Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Use the appropriate tools to collect the material and dispose of it in an approved waste disposal container.
Dispose contaminated material as waste according to section 13.
- **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**

· **PAC-1:**

25322-69-4	Polypropylene Glycol	30 mg/m3
1305-78-8	Calcium Oxide	6 mg/m3
112945-52-5	Amorphous Silica	18 mg/m3

(Contd. on page 4)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/03/2017

Reviewed on 05/03/2017

Trade name: Universal Water Finding Paste

9003-11-6	Poly(ethylene glycol)-block-poly(propylene glycol)-block-poly(ethylene glycol)	6.9 mg/m3
555-31-7	aluminium-tri-isopropoxide	23 mg/m3
1308-38-9	Dichromium trioxide	2.2 mg/m3
77-09-8	phenolphthalein	4 mg/m3

· PAC-2:

25322-69-4	Polypropylene Glycol	330 mg/m3
1305-78-8	Calcium Oxide	110 mg/m3
112945-52-5	Amorphous Silica	100 mg/m3
9003-11-6	Poly(ethylene glycol)-block-poly(propylene glycol)-block-poly(ethylene glycol)	76 mg/m3
555-31-7	aluminium-tri-isopropoxide	370 mg/m3
1308-38-9	Dichromium trioxide	24 mg/m3
77-09-8	phenolphthalein	44 mg/m3

· PAC-3:

25322-69-4	Polypropylene Glycol	2,000 mg/m3
1305-78-8	Calcium Oxide	660 mg/m3
112945-52-5	Amorphous Silica	630 mg/m3
9003-11-6	Poly(ethylene glycol)-block-poly(propylene glycol)-block-poly(ethylene glycol)	460 mg/m3
555-31-7	aluminium-tri-isopropoxide	2,200 mg/m3
1308-38-9	Dichromium trioxide	140 mg/m3
77-09-8	phenolphthalein	260 mg/m3

7 Handling and Storage**· Handling****· Precautions for safe handling:**

Avoid creating and breathing dust/fume/gas/mist/vapors/spray.

Open and handle receptacle with care.

Keep away from heat and direct sunlight.

· Information about protection against explosions and fires: Keep protective respiratory device available.**· Conditions for safe storage, including any incompatibilities:****· Storage****· Requirements to be met by storerooms and receptacles:**

Store in a cool, dry place in tightly closed receptacles.

· Information about storage in one common storage facility: See Section 10 (Incompatible materials)**· Further information about storage conditions:**

Keep container tightly sealed.

Prevent from drying out.

· 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 section 7.**· Control parameters:****· Components with occupational exposure limits:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

(Contd. on page 5)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/03/2017

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Trade name: Universal Water Finding Paste

1317-65-3 Calcium Carbonate	
NIOSH	Short-term value: 5 mg/m ³ Long-term value: 10 mg/m ³
NIOSH TWA	Short-term value: 5 mg/m ³ Long-term value: 10 mg/m ³ espirable dust
OSHA	Short-term value: 5 mg/m ³ Long-term value: 15 mg/m ³
OSHA TWA	Short-term value: 5 mg/m ³ Long-term value: 15 mg/m ³ espirable fraction
1305-78-8 Calcium Oxide	
PEL	Long-term value: 5 mg/m ³
REL	Long-term value: 2 mg/m ³
TLV	Long-term value: 2 mg/m ³
112945-52-5 Amorphous Silica	
ACGIH-TLV	Short-term value: 3 mg/m ³ Long-term value: 4 E mg/m ³
OSHA-PEL	Short-term value: 5 mg/m ³ Long-term value: 4 E mg/m ³
555-31-7 aluminium-tri-isopropoxide	
REL	Long-term value: 2 mg/m ³ as Al
TLV	Long-term value: 1* mg/m ³ as Al;*as respirable fraction

· **Additional information:** The lists that were valid during the creation of this SDS 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 and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Breathing equipment:** Not required.

· **Protection of hands:**



Protective gloves

· **Material of gloves:** Rubber gloves

· **Penetration time of glove material:**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

(Contd. on page 6)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/03/2017

Reviewed on 05/03/2017

Trade name: Universal Water Finding Paste

· **Eye protection:**



Safety glasses recommended.

* 9 Physical and Chemical Properties

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

· **General Information**

· **Appearance:**

Form:

Paste

Color:

Green

· **Odor:**

Odorless

· **Odor threshold:**

Not determined.

· **pH-value:**

Not applicable.

· **Change in condition**

Melting point/Melting range:

Not determined.

Boiling point/Boiling range:

Not determined.

· **Flash point:**

>110 °C (>230 °F)

· **Flammability (solid, gaseous):**

Not determined.

· **Ignition temperature:**

Not applicable

· **Decomposition temperature:**

Not determined.

· **Auto 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 @ 20 °C (68 °F):**

1.4 g/cm³ (11.683 lbs/gal)

· **Relative density:**

Not determined.

· **Vapor density:**

Not applicable.

· **Evaporation rate:**

Not applicable.

· **Solubility in / Miscibility with:**

Water:

Partly soluble.

· **Partition coefficient (n-octanol/water):**

Not determined.

· **Viscosity:**

Dynamic:

Not applicable.

Kinematic:

Not applicable.

· **Solvent content:**

Solids content:

53.8 %

· **Other information:**

No further relevant information available.

(Contd. on page 7)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/03/2017

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Trade name: Universal Water Finding Paste

10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:**
Acrid smoke/fumes/carbon monoxide, carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product. Small amounts of alkaline dust could also be released.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** Strong oxidizing agents.
- **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:**

1317-65-3 Calcium Carbonate

Oral	LD50	6450 mg/kg (Rat)
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1305-78-8 Calcium Oxide

Oral	LD50	500 mg/kg (Rat)
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112945-52-5 Amorphous Silica

Oral	LD50	10000 mg/kg (Rat)
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9003-11-6 Poly(ethylene glycol)-block-poly(propylene glycol)-block-poly(ethylene glycol)

Oral	LD50	Oral > 5000 ml/kg (Rat) The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
Dermal	LD50	>2000 mg/kg (Rabbit)

555-31-7 aluminium-tri-isopropoxide

Oral	LD50	11300 mg/kg (Rat)
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- **Primary irritant effect:**
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Irritating effect.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- **Carcinogenic categories:**

- **IARC (International Agency for Research on Cancer):**

112945-52-5	Amorphous Silica	3
1308-38-9	Dichromium trioxide	3
77-09-8	phenolphthalein	2B

- **NTP (National Toxicology Program):**

77-09-8	phenolphthalein	R
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- **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

(Contd. on page 8)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

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Reviewed on 05/03/2017

Trade name: Universal Water Finding Paste

* 12 Ecological Information

- **Toxicity:**

- **Aquatic toxicity:**

9003-11-6 Poly(ethylene glycol)-block-poly(propylene glycol)-block-poly(ethylene glycol)

EC50 >100 mg/l (Daphnia)

- **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.

- **Additional ecological information:**

- **General notes:**

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even 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.

Observe all federal, state and local environmental regulations when disposing of this material.

- **Uncleaned packagings**

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

14 Transport Information

- **UN-Number:**

- **DOT, ADR/ADN, ADN, IMDG, IATA**

Non-Regulated Material

- **UN proper shipping name:**

- **DOT, ADR/ADN, ADN, IMDG, IATA**

Non-Regulated Material

- **Transport hazard class(es):**

- **DOT, ADR/ADN, ADN, IMDG, IATA**

- **Class:**

Non-Regulated Material

- **Packing group:**

- **DOT, ADR/ADN, IMDG, IATA**

Non-Regulated Material

- **Environmental hazards:**

Not applicable.

- **Special precautions for user:**

Not applicable.

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**

Not applicable.

- **UN "Model Regulation":**

Non-Regulated Material

(Contd. on page 9)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/03/2017

Reviewed on 05/03/2017

Trade name: Universal Water Finding Paste*** 15 Regulatory Information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

· Section 355 (extremely hazardous substances):
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None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):
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1308-38-9	Dichromium trioxide
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77-09-8	phenolphthalein
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· TSCA (Toxic Substances Control Act):

25322-69-4	Polypropylene Glycol
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1317-65-3	Calcium Carbonate
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1305-78-8	Calcium Oxide
-----------	---------------

9003-11-6	Poly(ethylene glycol)-block-poly(propylene glycol)-block-poly(ethylene glycol)
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555-31-7	aluminium-tri-isopropoxide
----------	----------------------------

1308-38-9	Dichromium trioxide
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77-09-8	phenolphthalein
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· California Proposition 65:

· Chemicals known to cause cancer:

77-09-8	phenolphthalein
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· Chemicals known to cause reproductive toxicity for females:
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None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:
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None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

· New Jersey Right-to-Know List:

1317-65-3	Calcium Carbonate
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1305-78-8	Calcium Oxide
-----------	---------------

1308-38-9	Dichromium trioxide
-----------	---------------------

77-09-8	phenolphthalein
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· New Jersey Special Hazardous Substance List:

1305-78-8	Calcium Oxide	CO, R1
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77-09-8	phenolphthalein	CA
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· Pennsylvania Right-to-Know List:

1317-65-3	Calcium Carbonate
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1305-78-8	Calcium Oxide
-----------	---------------

· Pennsylvania Special Hazardous Substance List:

None of the ingredients are listed.

· Carcinogenic categories:

· EPA (Environmental Protection Agency):

1308-38-9	Dichromium trioxide	D, CBD
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(Contd. on page 10)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/03/2017

Reviewed on 05/03/2017

Trade name: Universal Water Finding Paste

· TLV (Threshold Limit Value established by ACGIH):		
1308-38-9	Dichromium trioxide	A4
· NIOSH-Ca (National Institute for Occupational Safety and Health):		
None of the ingredients are listed.		

· **GHS label elements**

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

· **Hazard pictograms:**

GHS07 GHS08

· **Signal word:** Warning· **Hazard-determining components of labeling:**

Calcium Oxide

· **Hazard statements:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

· **Precautionary statements:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

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.

P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

· **Information about limitation of use:**· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· **Date of preparation / last revision:** 05/03/2017 / 2

(Contd. on page 11)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/03/2017

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Trade name: Universal Water Finding Paste

· **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
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)
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 and Health
OSHA: Occupational Safety & Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flam. Sol. 1: Flammable solids – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Muta. 2: Germ cell mutagenicity – Category 2
Carc. 1B: Carcinogenicity – Category 1B
Repr. 2: Reproductive toxicity – Category 2

· *** Data compared to the previous version altered.**

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