

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Identification

Product form : Mixture
 Product name : MAGTASTIK PLUS
 Product code : GT2522

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Wheel cleaner

1.3. Details of the supplier of the safety data sheet

Gliptone Manufacturing Inc.
 1740 Julia Goldbach Avenue
 Ronkonkoma, NY 11779 - United States of America
 T 1-631-285-7250 - F 1-631-589-5487
www.gliptone.com

1.4. Emergency telephone number

Emergency number : 1-800-424-9300 International: 1-703-527-3887

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Acute Tox. 4 (Oral) H302 - Harmful if swallowed
 Skin Corr. 1B H314 - Causes severe skin burns and eye damage
 Eye Dam. 1 H318 - Causes serious eye damage
 Skin Sens. 1 H317 - May cause an allergic skin reaction

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS05

GHS07

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H302 - Harmful if swallowed
 H314 - Causes severe skin burns and eye damage
 H317 - May cause an allergic skin reaction

Precautionary statements (GHS-US) :

P260 - Do not breathe dust/fume/gas/mist/vapors/spray
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
 P264 - Wash ... thoroughly after handling
 P270 - Do not eat, drink or smoke when using this product
 P272 - Contaminated work clothing must not be allowed out of the workplace
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P301+P312 - If swallowed: Call a poison center/doctor/... if you feel unwell
 P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting
 P302+P352 - If on skin: Wash with plenty of water/...
 P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
 P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
 P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P310 - Immediately call a poison center/doctor/...
 P321 - Specific treatment (see ... on this label)
 P330 - Rinse mouth
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
 P363 - Wash contaminated clothing before reuse
 P405 - Store locked up
 P501 - Dispose of contents/container to ...

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2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
ammonium hydrogen difluoride	(CAS No) 1341-49-7	5 - 15	Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314
SURFACTANT GROUP	(CAS No) 68439-46-3	1 - 15	Acute Tox. 4 (Oral), H302
(+)-limonene	(CAS No) 5989-27-5	0.5 - 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
alkyldimethylbenzylammoniumchloride	(CAS No) 8001-54-5	1 - 5	Acute Tox. 3 (Oral), H301
Trade Secret*	(CAS No) Trade Secret	1 - 5	Not classified

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Wash off immediately and plentifully with water for at least 20 minutes. Call a physician immediately. Wash clothing before re-using. Discard contaminated leather articles. Destroy contaminated shoes.
First-aid measures after eye contact	: Rinse thoroughly with plenty of water for at least 20 minutes and take medical advice.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain medical attention. Never give anything by mouth to an unconscious person. Drink two glasses of water. Give milk to drink.

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

Symptoms/injuries after skin contact	: Burns. May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: Serious damage to eyes.
Symptoms/injuries after ingestion	: Burns.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry powder. Foam. Carbon dioxide. Water fog.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Not flammable. Under fire conditions closed containers may rupture or explode.
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.

5.3. Advice for firefighters

Firefighting instructions	: Move containers away from the fire area if this can be done without risk. Cool down the containers/equipment exposed to heat with a water spray. Ensure that there is no direct contact between the water and the product.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	: Combustion produces irritating gases. Carbon oxides (CO, CO ₂). Hydrogen fluoride. Nitric oxide/nitrogen dioxide. ammonia.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Keep public away.

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6.1.1. For non-emergency personnel

- Protective equipment : Use chemically protective clothing.
- Emergency procedures : Ventilate spillage area. NO open flames, NO sparks, and NO smoking. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8 Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

- For containment : Eliminate ignition sources. Ensure adequate ventilation. Stop leak without risks if possible.
- Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8 : Exposure-controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Corrosive substances, toxic: Liquid.
- Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from (strong) acids.
- Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Discard contaminated leather articles.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep cool. Store locked up. Inspect frequently to identify any sing of warping or leak of the containers. No smoking.
- Special rules on packaging : Always keep in containers made of the same material as the supply container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ammonium hydrogen difluoride (1341-49-7)		
ACGIH	ACGIH TWA (mg/m ³)	2.5 mg/m ³
OSHA	OSHA PEL (TWA) (mg/m ³)	2.5 mg/m ³

8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Hand protection : Impermeable protective gloves. Wear long sleeves. Use protective clothing.
- Eye protection : Safety glasses. Contact lenses should not be worn.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Environmental exposure controls : Avoid release to the environment.
- Other information : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Color : Mixture contains one or more component(s) which have the following colour(s):
White Colourless to white Colourless Colourless to light yellow White to yellow-white

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Odor	: Mixture contains one or more component(s) which have the following odour(s): Orange odour Mild odour Aromatic odour
Odor threshold	: No data available
pH	: 4.5 - 5
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 104.4 °C
Flash point	: 98 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Solubility	: soluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

VOC content : 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, No sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Keep away from: strong acids, strong bases and oxidation agents.

10.6. Hazardous decomposition products

On contact with acid releases: Hydrogen fluoride.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure : Skin contact.; Eyes contact.; Inhalation; Ingestion.

Acute toxicity : Oral: Harmful if swallowed.

MAGTASTIK PLUS	
ATE US (oral)	1747.327 mg/kg body weight
ammonium hydrogen difluoride (1341-49-7)	
LD50 oral rat	130 mg/kg (Rat; Literature)
ATE US (oral)	130.000 mg/kg body weight
SURFACTANT GROUP (68439-46-3)	
LD50 oral rat	1378 mg/kg (Rat)

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SURFACTANT GROUP (68439-46-3)	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
ATE US (oral)	1378.000 mg/kg body weight

(+)-limonene (5989-27-5)	
LD50 oral rat	4400 mg/kg body weight (Rat; OECD 423: Acute Oral Toxicity – Acute Toxic Class Method; Literature study; > 2000 mg/kg bodyweight; Rat; Read-across)
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit; Weight of evidence; Equivalent or similar to OECD 402)
ATE US (oral)	4400.000 mg/kg body weight

alkyldimethylbenzylammoniumchloride (8001-54-5)	
LD50 oral rat	240 mg/kg (Rat)
ATE US (oral)	240.000 mg/kg body weight

Trade Secret	
LD50 oral rat	3000 mg/kg (Rat; Experimental value; 3550 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit; Experimental value)
ATE US (oral)	3000.000 mg/kg body weight

Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

(+)-limonene (5989-27-5)	
IARC group	3 - Not Classifiable

Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified

Specific target organ toxicity (repeated exposure)	: Not classified
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Aspiration hazard	: Not classified
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Symptoms/injuries after skin contact	: Burns. May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: Serious damage to eyes.
Symptoms/injuries after ingestion	: Burns.
Other information	: CNS depression. fluorosis. May occur.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Do not allow into drains or water courses or dispose of where ground or surface waters may be affected. Do not discharge into drains or the environment. Do not discharge into surface water.
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ammonium hydrogen difluoride (1341-49-7)	
LC50 fish 1	< 562 mg/l (LC50; 96 h; Brachydanio rerio)

(+)-limonene (5989-27-5)	
LC50 fish 1	720 µg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value)
EC50 Daphnia 1	0.36 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Threshold limit algae 1	150 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Desmodesmus subspicatus; Static system; Fresh water; Read-across)

alkyldimethylbenzylammoniumchloride (8001-54-5)	
LC50 fish 1	0.62 mg/l (LC50; 96 h)

Trade Secret	
LC50 fish 2	5840 mg/l (LC50; ASTM; 96 h; Lepomis macrochirus; Flow-through system; Fresh water; Experimental value)

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Trade Secret	
Threshold limit algae 2	2430 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 120 h; Algae; Static system; Fresh water; Experimental value)

12.2. Persistence and degradability

ammonium hydrogen difluoride (1341-49-7)	
Persistence and degradability	Biodegradability: not applicable.
ThOD	Not applicable

SURFACTANT GROUP (68439-46-3)	
Persistence and degradability	Readily biodegradable in water.

(+)-limonene (5989-27-5)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Adsorbs into the soil.
ThOD	3.29 g O ₂ /g substance

alkyldimethylbenzylammoniumchloride (8001-54-5)	
Persistence and degradability	Readily biodegradable in water.

Trade Secret	
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

12.3. Bioaccumulative potential

ammonium hydrogen difluoride (1341-49-7)	
Bioaccumulative potential	Bioaccumulation: not applicable.

SURFACTANT GROUP (68439-46-3)	
Bioaccumulative potential	No bioaccumulation data available.

(+)-limonene (5989-27-5)	
BCF fish 1	864.8 - 1022 (BCF; Pisces)
Log Pow	4.38 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 37 °C)
Bioaccumulative potential	Potential for bioaccumulation ($4 \geq \text{Log Kow} \leq 5$).

alkyldimethylbenzylammoniumchloride (8001-54-5)	
Bioaccumulative potential	Not bioaccumulative.

Trade Secret	
Log Pow	-3.0 (Calculated)
Bioaccumulative potential	Low potential for bioaccumulation ($\text{Log Kow} < 4$).

12.4. Mobility in soil

(+)-limonene (5989-27-5)	
Log Koc	Koc, SRC PCKOCWIN v2.0; 1120 - 6324; QSAR

12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN2817 Ammonium hydrogendifluoride, solution, 8, III

UN-No. (DOT) : UN2817

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Proper Shipping Name (DOT) : Ammonium hydrogendifluoride, solution
Hazard Classes (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT) : 8 - Corrosive
6.1 - Poison



Packing group (DOT) : III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 241
DOT Special Provisions (49 CFR 172.102) : IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).
N3 - Glass inner packaging are permitted in combination or composite packaging only if the hazardous material is free from hydrofluoric acid.
T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
TP12 - This material is considered highly corrosive to steel.
TP13 - Self-contained breathing apparatus must be provided when this hazardous material is transported by sea.
DOT Packaging Exceptions (49 CFR 173.xxx) : 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L
DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other : 40 - Stow "clear of living quarters", 95 - Stow "separated from" foodstuffs
Other information : No supplementary information available.

TDG

No additional information available

Transport by sea

UN-No. (IMDG) : 2817
Proper Shipping Name (IMDG) : AMMONIUM HYDROGENDIFLUORIDE SOLUTION
Class (IMDG) : 8 - Corrosive substances
Packing group (IMDG) : III - substances presenting low danger

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

alkyldimethylbenzylammoniumchloride	CAS No 8001-54-5	1 - 5%
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This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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ammonium hydrogen difluoride (1341-49-7)	
Not listed on SARA Section 313 (Specific toxic chemical listings)	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb
SURFACTANT GROUP (68439-46-3)	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e., Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)).

15.2. International regulations

CANADA

During the transition period (June 2015-June 2017), Canadian regulation requires that the supplier must provide a document that conforms to either *Controlled Products Regulations* (WHMIS 1988) or HPR (WHMIS 2015), and not a combination of both. This document conforms to the post June 2017 HPR (WHMIS 2015) for a specific controlled or hazardous product. The classification, label and (material) SDS fully complies with the specific regulation chosen by the supplier.

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

ammonium hydrogen difluoride (1341-49-7)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Full text of H-phrases:

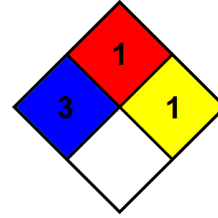
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Liq. 3	Flammable liquids Category 3
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
H226	Flammable liquid and vapor
H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

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- NFPA health hazard : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
- NFPA fire hazard : 1 - Must be preheated before ignition can occur.
- NFPA reactivity : 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



HMIS III Rating

- Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
- Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
- Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

Legend:

ACGIH: American Conference of Governmental Industrial Hygienists	CFR: Code of Federal Regulations
NIOSH: National Institute of Occupational Safety and Health	EPA: Environmental Protection Agency
CAS: Chemical Abstract Services	N/Av: not applicable
DOT: Department of Transportation	NFPA: National Fire Protection Association
HMIS: Hazardous Materials Identification System	PEL: Permissible Exposure Limit
IARC: International Agency for Research on Cancer	STEL: Short Term Exposure Limit
N/Av: not available	TSCA: Toxic Substance Control Act
OSHA: Occupational Safety and Health Administration	
SARA: Superfund Amendments & Reauthorization Act	
TLV: Threshold Limit Values	

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product