

## SAFETY DATA SHEET

### Section 1: Product and Company Information

**Product Name:** MDI CD Modified

**Product Use:** Component for the manufacture of polyurethane polymers

**Chemical family:** Aromatic isocyanate

**Supplier:** Everchem Specialty Chemicals  
1400 N. Providence Road, Ste 302  
Media, PA 19063, USA  
[www.everchem.com](http://www.everchem.com)

**Emergency Telephone:** North America: Chemtrec 800-424-9300 (domestic)  
+1-703-527-3887 (international, collect calls accepted)  
/65130 (08:30-17:30)  
+44 780 183 7343

### Section 2: Hazards Identification

Personal Protective Equipment	GHS Pictogram	WHMIS (Canada)
		 D1A D2A

#### 2.1 Classification of the substance or mixture:

Classification according to GHS (UNECE 3<sup>rd</sup> revised edition)

Acute Tox. 4; H332: Harmful if inhaled.  
 STOT RE 2; H373: May cause damage to organs through prolonged or repeated exposure by inhalation.  
 Eye Irrit. 2; H319: Causes serious eye irritation.  
 STOT SE 3; H335: May cause respiratory irritation.  
 Skin Irrit. 2; H315: Causes skin irritation.  
 Resp. Sens. 1; H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 Skin Sens. 1; H317: May cause an allergic skin reaction.

#### 2.2 Label elements:

Label according to GHS (UNECE 3<sup>rd</sup> revised edition)



Danger.  
 Harmful if inhaled.  
 May cause damage to organs through prolonged or repeated exposure by inhalation.  
 Causes serious eye irritation.  
 May cause respiratory irritation.  
 Causes skin irritation.  
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 May cause an allergic skin reaction.

#### Precautionary Statements

##### Prevention

P260: Do not breathe fume/mist/vapors/spray.  
 P264: Wash exposed skin thoroughly after handling.  
 P271: Use only outdoors or in a well-ventilated area.  
 P272: Contaminated work clothing should not be allowed out of the workplace.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P285: In case of inadequate ventilation, wear respiratory protection.

## SAFETY DATA SHEET

### Section 2: Hazards Identification, continued

**Response**

P304+P340: IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.  
P312: Call a Poison Center/doctor if you feel unwell.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313: If eye irritation persists: Get medical attention.  
P302+P352: IF ON SKIN: wash with plenty of soap and water.  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
P362: Take off contaminated clothing and wash it before reuse.

**Storage**

P403+233: Store in a well-ventilated place. Keep container tightly closed.  
P405: Store locked up.

**Disposal**

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

**2.3 Other Hazards:** Toxic fumes may be released in fire situations. Can decompose at high temperatures forming toxic gases. Closed containers may develop pressure and rupture on prolonged exposure to heat or if contaminated with water.

USA: This material is considered a hazardous chemical by the OSHA Hazard Communication Standard (29 CFR 1910.1200) (2012).

Canada: This is a controlled product under WHMIS.

### Section 3: Composition and Ingredient Information

<u>Common Name</u>	<u>Chemical Name</u>	<u>CAS No.</u>	<u>Wt.%</u>
Methylene diphenyl diisocyanate (MDI)	4,4'-methylenediphenyl diisocyanate	101-68-8	60 - 100
Diphenylmethane diisocyanate (homopolymer)	4,4'-Methylenediphenyl diisocyanate, oligomers	25686-28-6	15 - 40
Triethyl phosphate	Phosphoric acid, triethyl ester	78-40-0	1 - 2

### Section 4: First Aid Measures

**4.1 Description of first aid measures:**

**Precautions:** First aid providers should avoid direct contact with this chemical. Wear chemical protective gloves, if necessary. Take proper precautions to ensure your own safety before attempting rescue, (e.g. wear appropriate protective equipment).

**Inhalation:** If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If exposed or concerned: Get medical advice/attention.

If breathing has stopped, trained personnel should begin artificial respiration (AR) or, if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Immediately obtain medical attention and transport victim to an emergency care facility.

**Eye Contact:** Gently blot or brush away excess chemical quickly.

If product is a solid in the eye: Do not allow victim to rub eye(s). Let the eye(s) water naturally for a few minutes. Have victim look right and left, and then up and down. If particle/dust does not dislodge, flush with lukewarm, gently flowing water for 5 minutes or until particle/dust is removed, while holding the eyelid(s) open. If irritation persists, obtain medical attention. DO NOT attempt to manually remove anything stuck to eye(s).

If product is a liquid: Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 5 minutes, or until the chemical is removed, while holding the eyelid(s) open. If irritation persists, repeat flushing. Obtain medical attention immediately.

## SAFETY DATA SHEET

### Section 4: First Aid Measures, continued

**Skin Contact:** As quickly as possible, remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Quickly and gently blot or brush away excess chemical. Immediately wash with lukewarm, gently flowing water and non-abrasive soap for 15-20 minutes. Completely decontaminate clothing, shoes and leather goods before reuse or discard.

If skin irritation or rash occurs: Get medical advice/attention.

**Ingestion:** If swallowed, call a POISON CENTER or doctor/physician.

Never give anything by mouth if victim is rapidly losing consciousness or is unconscious or convulsing. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Quickly transport victim to an emergency care facility.

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

**Inhalation:** Respiratory tract irritation and mucous membrane irritation. Symptoms include eye and nose irritation, dry or sore throat, runny nose, shortness of breath, wheezing and laryngitis. Coughing with chest pain or tightness may also occur, frequently at night. These symptoms may occur during exposure or may be delayed several hours. Exposure to isocyanates can cause difficulty breathing or asthmatic reaction.

**Eye Contact:** Irritation of the eye tissue.

**Skin Contact:** Tingling, irritation or redness of the skin.

**Ingestion:** Irritation of the tissues of the mouth, throat and digestive tract. Other symptoms include headache, shortness of breath, nausea, vomiting, weakness, burning sensation in the mouth, abdominal pain and vomiting. Onset of symptoms may be delayed.

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

Get immediate medical advice/attention if allergy symptoms develop.

### Section 5: Fire Fighting Measures

**Flammable Properties:** This material can burn if heated. Flashpoint = 213°C

**Suitable extinguishing Media:** Carbon dioxide, dry chemical powder, foam, water fog or fine spray. Alcohol resistant foams are preferred for large fires. Use water spray to cool fire-exposed containers.

**Unsuitable extinguishing Media:** Exercise caution when using water; water contamination of product will generate CO<sub>2</sub> gas.

#### Explosion Data:

**Sensitivity to Mechanical Impact:** Not applicable

**Sensitivity to Static Discharge:** Not available

**Specific Hazards arising from the Chemical:** During a fire products of combustion may include carbon monoxide, carbon dioxide, hydrogen cyanide, nitrogen oxides, dense smoke and irritating or toxic fumes. Reacts vigorously with water above 50°C. Closed containers may rupture violently when heated. MDI decomposes rapidly above 230°C.

**Protective Equipment and precautions for firefighters:** Firefighters should wear full protective gear including self-contained breathing apparatus when fighting chemical fires. Fight fire from a protected location or a safe distance. When using water care must be taken since the reaction between water and hot MDI can be vigorous.

## SAFETY DATA SHEET

### Section 6: Accidental Release Measures

- Personal Precautions:** Wear adequate personal protective equipment as indicated in Section 8. Isolate spill area, preventing entry by unauthorized persons. Ventilate area of spill. Extinguish or remove all ignition sources. Spilled product presents a slipping hazard. Do not touch spilled material.
- Environmental Precautions:** Prevent the material from entering sewers, drainage systems, groundwater and surface water.
- Methods for Containment:** Immediately shut off the leak if it is safe to do so. Contain the spill with earth, sand, sawdust or suitable absorbent. If control of isocyanate vapor is required, cover the spilled material with protein foam. Shovel into open-top drums or plastic bags for further decontamination, if necessary. Do not seal drums or containers.  
Neutralize small spills with decontaminant solution (see below).
- Methods for Clean-up:** Wash area with Decontamination solution of 0.2-0.5% liquid detergent and 3-8% concentrated ammonium hydroxide in water (5-10% sodium carbonate may be substituted for the ammonium hydroxide). Allow material to stand for 48 hours to let carbon dioxide gas escape.

### Section 7: Handling and Storage

- Handling:** Do not breathe fumes, vapors or spray mist from this material. Avoid contact with skin and eyes. Provide adequate ventilation in the workplace. If MDI is released, leave the area until the severity of the release is determined. Immediately report leaks, spills or ventilation failures.  
Do not use with incompatible materials such as amines, alcohols, acids, bases, metal compounds, surfactants and water which may react vigorously and/or violently.  
Do not use near welding operations, flames or hot surfaces because of the risk of formation of toxic hydrogen cyanide and nitrogen oxides.  
Avoid generating mist. Prevent the release of aerosol into workplace air. Do not reseal containers if contamination of MDI is suspected.  
Keep containers closed when not in use. Assume that empty containers contain residues which are hazardous.
- Storage:** Store in a dry, well-ventilated area, out of direct sunlight and away from heat, sources of ignition and incompatible materials. Keep contents away from moisture; MDI reacts with water producing CO<sub>2</sub> gas, a hazardous build-up of pressure could result if contaminated containers are re-sealed. Do not re-seal contaminated containers.  
Nitrogen blanketing open containers of MDI CD Modified is recommended to minimize oxidation and keep out moisture. Store product in its original container.  
Store indoors at temperatures between 20 and 30°C (68 – 86°). Storage below 15°C (59°F) may lead to crystallization of the product. Crystallized product should be warmed to 70-80°C (158-176°), to liquefy the product and agitated carefully and thoroughly before use.

### Section 8: Exposure Controls and Personal Protection

#### Exposure Guidelines

Consult local authorities for acceptable exposure limits.

<u>Ingredient</u>	<u>ACGIH TLV</u> <u>(8-hr. TWA)</u> <u>(mg/m<sup>3</sup>)</u>	<u>U.S. OSHA PEL</u> <u>(8-hr. TWA)</u> <u>(mg/m<sup>3</sup>)</u>	<u>Alberta/British Columbia/Ontario</u> <u>(Canada) TWA</u>
Methylene diphenyl diisocyanate (MDI)	0.051 (0.005 ppm)	0.2 (0.02 ppm)	0.005 ppm Designated Substance
Diphenylmethane diisocyanate (homopolymer)	Not established	Not established	Not established
Triethyl phosphate	Not established	Not established	Not established

- Engineering Controls:** Local exhaust ventilation may be necessary when operations generate airborne concentrations of this material (e.g. molding and curing of polyurethane products, especially if heating or spraying is involved).  
If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment including approved respiratory protection. Have appropriate equipment available for use in emergencies such as spills or fire.

## SAFETY DATA SHEET

### Section 8: Exposure Controls and Personal Protection, continued

**Personal Protection:**

**Eye/Face Protection:** Wear safety goggles. Wear a face-shield when necessary to prevent contact with skin and eyes.

**Skin Protection:** Wear chemical protective gloves, coveralls, boots and/or other resistant protective clothing to prevent skin exposure. Protective gloves are those made from butyl rubber, nitrile rubber and polyvinyl alcohol. Evaluate resistance under conditions of use and maintain protective clothing carefully.

**Respiratory Protection:** A respiratory protection program that meets the regulatory requirement, such as OSHA's 29 CFR 1910.134 and ANSI Z88.2 or Canadian Standards Association (CSA) Standard Z94.4-2002, must be followed whenever workplace conditions warrant a respirator's use.

NIOSH Recommendations for MDI concentrations in air:

**Up to 0.5 mg/m<sup>3</sup>:**

(APF = 10) Any supplied-air respirator

**Up to 1.25 mg/m<sup>3</sup>:**

(APF = 25) Any supplied-air respirator operated in a continuous-flow mode

**Up to 2.5 mg/m<sup>3</sup>:**

(APF = 50) Any self-contained breathing apparatus with a full facepiece

(APF = 50) Any supplied-air respirator with a full facepiece

**Up to 75 mg/m<sup>3</sup>:**

(APF = 2000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode

**Emergency or planned entry into unknown concentrations or IDLH conditions:**

(APF = 10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode

(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus

**Escape:**

(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister having an N100, R100, or P100 filter.

**Other Protective Equipment:** Have a safety shower and eye-wash fountain readily available in the immediate work area.

**Work/Hygienic Practices:** Workers whose clothing has been contaminated by product should change into clean clothing promptly. Discard all contaminated leather clothing articles (e.g. belts, watchbands, shoes). Do not eat, smoke or drink in workplaces where this product is processed by machining operations. Wash hands carefully before eating, drinking, smoking or using the toilet.

### Section 9: Physical and Chemical Properties

<b>Physical State:</b>	Liquid	<b>Flash Point &amp; method:</b>	213°C (415°F)
<b>Appearance, Color and Odor:</b>	Liquid at room temperature, pale yellow. Slight musty odor.	<b>Autoignition Temperature:</b>	>200°C
<b>Odour Threshold:</b>	Not available	<b>Flammability Limits in Air:</b>	Not available
<b>pH:</b>	Not applicable	<b>Vapor Pressure:</b>	0.0006 mmHg @ 25°C
<b>Relative density: (water = 1)</b>	1.21 – 1.23 @ 25°C (77°F)	<b>Vapor Density: (Air = 1)</b>	Not available
<b>Partition coefficient: (n-octanol/water)</b>	Not applicable	<b>Evaporation Rate: (n-Butyl Acetate = 1)</b>	Not available
<b>Solubility:</b>	Insoluble in water.	<b>Boiling Point/Range:</b>	160°C @ 0.07 kPa
<b>Viscosity:</b>	Not available	<b>Melting Point:</b>	≤15°C (59°F)
<b>Decomposition Temperature:</b>	>230°C		

## SAFETY DATA SHEET

### Section 10: Stability and Reactivity

- Chemical Stability:** Stable under normal conditions.  
Isocyanates are very reactive compounds and are especially highly reactive toward a large number of compounds with active hydrogens, particularly at high temperatures and in the presence of catalysts. May attack and make brittle many plastic and rubber materials.
- Conditions to Avoid:** Avoid conditions of heat, moisture and direct sunlight.
- Incompatible Materials:** Water - Reacts slowly, forming carbon dioxide and inert material comprised of polyureas which could rupture closed containers. 4,4'-methylene dianiline is formed as an intermediate product in this reaction. Above 50°C (122°F), the reaction becomes progressively more vigorous.  
Amines, Alcohols, Acids, Bases - May react violently with generation of heat.  
Metal compounds (e.g. organotin catalysts) - May polymerize with the generation of heat and pressure.  
Amides, phenols, mercaptans, urethanes, ureas and surface active compounds (surfactants, non-ionic detergents) - May react vigorously or violently with the generation of heat.
- Hazardous Decomposition Products:** By thermal decomposition and combustion, product may generate carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen cyanide, dense smoke and irritating or toxic fumes.  
4,4'-Methylene dianiline can be formed by reaction of MDI with water.
- Possibility of Hazardous Reactions:** MDI may undergo uncontrolled exothermic polymerization upon contact with incompatible materials or if heated above 175-204°C. The resulting pressure build-up could rupture closed containers.  
May cause some corrosion to copper alloys and aluminum.

### Section 11: Toxicological Information

#### Acute Toxicity Data

##### 11.1 Information on toxicological effects:

###### Acute Health Effects:

**Inhalation:** MDI has a very low vapor pressure and it is difficult to achieve vapor concentrations necessary for inhalation toxicity testing. Mice exposed to MDI aerosols varying from 7 to 59 mg/m<sup>3</sup> for 4 hours demonstrated a decline in respiratory rate which was determined to be due mainly to MDI's action as a pulmonary irritant. The RD<sub>50</sub> (concentration to reduce the respiratory rate by 50%) was 32 mg/m<sup>3</sup>.  
Some people may become sensitized to MDI, causing allergy or asthma symptoms or breathing difficulties if inhaled.

High aerosol concentrations could cause inflammation of the lung tissue (chemical pneumonitis), chemical bronchitis with severe asthma-like wheezing, severe coughing spasms and accumulation of fluid in the lungs (pulmonary edema), which could prove fatal. Symptoms of pulmonary edema may not appear until several hours after exposure and are aggravated by physical exertion.

**Ingestion:** Ingestion is not expected with normal, occupational use of this product. Animal studies indicate that ingested MDI has low toxicity. Swallowing may result in irritation and corrosion of the mouth, throat and digestive tract.

**Skin:** MDI can cause mild irritation. Isocyanates, in general, can cause skin discoloration (staining) and hardening of the skin after repeated exposures. Skin sensitization, resulting in dermatitis, may occur in some individuals. Cured material may be difficult to remove from the skin.  
Application of single doses of 2.5, 3.9, 6.0 and 9.4 mg/kg MDI to abraded skin of rabbits, under a cover for 24 hours, caused only minor, local, reversible skin changes.

**Eye:** MDI, Liquid, vapours and aerosols, cause eye irritation in humans.

###### Acute Toxicity Data

<u>Product</u>	<u>LD<sub>50</sub> Oral</u> <u>(mg/kg)</u>	<u>LD<sub>50</sub> Dermal</u> <u>(mg/kg)</u>	<u>LC<sub>50</sub> Inhalation</u> <u>(mg/m<sup>3</sup> / 4 hrs.)</u>
Methylene diphenyl diisocyanate (MDI)	2 200 (mouse)	>10 000 (rabbit)	490 (rat) Aerosol, particle size: 95% less than 4.3 microns mass median aerodynamic diameter (MMAD)
Diphenylmethane diisocyanate (homopolymer)	Not available	Not available	Not available
Triethyl phosphate	1 165 (rat)	>20 000 (guinea pig)	>2 000 (rat)

**SAFETY DATA SHEET****Section 11: Toxicological Information, continued****Chronic Health Effects:**

**Inhalation:** MDI is a severe respiratory irritant. Long-term, low-level exposure could cause severe, permanent respiratory impairment. Respiratory sensitization can develop in people working with MDI. Sensitized individuals react to very low levels of MDI (as low as 0.0014 ppm) that have no effect on unsensitized people. Symptoms may initially appear to be a cold or mild hay fever; severe asthmatic symptoms can develop and include wheezing, chest tightness, shortness of breath, difficulty breathing and/or coughing. Fever, chills, general feelings of discomfort, headache and fatigue can also occur. Symptoms may occur immediately upon exposure or may be delayed. Sensitized people who continue to work with MDI may develop symptoms sooner after each exposure. The number and severity of symptoms may increase. MDI and other isocyanates may also cause hypersensitivity pneumonitis, another allergic lung disease, which is characterized by symptoms such as shortness of breath, fever, tiredness, non-productive cough, and chills.

**Sensitization:**

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Isocyanates are known to cause skin and respiratory sensitization in humans. Animal tests have indicated that respiratory sensitization can result from skin contact with diisocyanates.

**Neurological Effects:**

Not available

**Genetic Effects:**

Not available

**Reproductive Effects:**

Not available

**Developmental Effects:**

Not available

**Target Organ Effects:**

Long-term, low-level exposure may cause severe, permanent respiratory impairment.

**Carcinogenicity:**

This material does not contain any component that is considered a human carcinogen by IARC (International Agency for Research on Cancer), ACGIH (American Conference of Governmental Industrial Hygienists, OSHA or NTP (National Toxicology Program). The International Agency for Research on Cancer (IARC) has concluded that MDI is not classifiable as to carcinogenicity to humans (Group 3).

**Medical Conditions Aggravated by Exposure:**

Skin exposure may aggravate existing dermatitis conditions.

**Interactions With Other Chemicals:**

Not available

**Section 12: Ecological Information****Ecotoxicity:**

Not available

**Persistence/Degradability:**

Product is not readily biodegradable.

**Bioaccumulation/Accumulation:**

MDI hydrolyzes rapidly in aqueous solution therefore, bioconcentration will not be environmentally important. Exposure of carp to 0.00001% MDI for an eight week period resulted in no accumulations of isocyanates.

**Mobility:**

Liquid MDI will solidify on contact with soil. Reacts with water to form solid polyureas which are insoluble in water.

**Section 13: Disposal Considerations****Waste treatment methods:**

Do NOT discard into any sewers, on the ground or into any body of water. Store material for disposal as indicated in Section 7 Handling and Storage. Dispose of in accordance with local/regional/national/ international regulations.

**SAFETY DATA SHEET****Section 14: Transport Information**

<b>U.S. Hazardous Materials Regulation (DOT 49CFR):</b>	Not regulated except when shipped in bulk. Bulk containers (>5 000 lbs/2 270 kg) must be transported as: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Methylene Diphenyl Diisocyanate), Class 9, PG III, RQ.
<b>Canadian Transportation of Dangerous Goods (TDG):</b>	Not regulated
<b>IMO Classification:</b>	Not regulated
<b>ICAO/IATA Classification:</b>	Not regulated

**Section 15: Regulatory Information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:****USA**

**TSCA Status:** All component substances of this mixture are listed on the TSCA inventory.

**SARA Title III :** Sec. 313 Methylene diphenyl diisocyanate (MDI), 1% de minimis CERCLA RQ Methylene diphenyl diisocyanate (MDI) 5 000 lbs (2270 kg)

**OSHA HazCom 2012 Hazards:** Acute Tox. 4; H332: Harmful if inhaled.  
STOT RE 2; H373: May cause damage to organs through prolonged or repeated exposure by inhalation.  
Eye Irrit. 2; H319: Causes serious eye irritation.  
STOT SE 3; H335: May cause respiratory irritation.  
Skin Irrit. 2; H315: Causes skin irritation.  
Resp. Sens. 1; H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Skin Sens. 1; H317: May cause an allergic skin reaction.

**California Proposition 65:** The component substances are not listed.

**Canada**

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

**WHMIS Classification:** D1A: Immediate and serious toxic effects.  
D2A: Material causing other toxic effects (due to respiratory sensitization).  
D2B: Skin sensitization/irritation and eye irritation.

**NSNR Status:** All substances in this preparation are listed on the DSL.

**NPRI Substances:** Methylene diphenyl diisocyanate (MDI) NPRI reportable substance (Part I, Group I).

**Other International Inventories**

**Australia:** All component substances are present on the Inventory of Chemical Substances (AICS).

**European Inventory:** All substances in this preparation are listed in EINECS or NLP list.

**China:** All component substances are present on the Chemical Inventory (IECSC).

**Japan:** All component substances are present on the inventory - Existing and New Chemical Substances (ENCS).

**Korea:** All component substances are present on the inventory - Existing and Evaluated Chemical Substances.

**New Zealand:** All component substances are present on the Chemical Inventory (NZIoC).

**Philippines:** All component substances are present on the inventory of Chemicals and Chemical Substances (PICCS).

**Turkey:** All component substances are present on the inventory



## SAFETY DATA SHEET

**Section 16: Other Information**

**Revision date:** October 1, 2013

**Other information:** 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.

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