

# SAFETY DATA SHEET

Product name: CARTEL DOT 4 580 RACING BRAKE FLUID Issue Date: 03/10/2015

Print Date: 06/18/2015

The Cartel Products Company encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

## 1. IDENTIFICATION

Product name: CARTEL DOT 4 580 RACING BRAKE FLUID #04RBF-6-12

Recommended use of the chemical and restrictions on use **Identified uses:** A brake fluid - For use in automotive applications.

**COMPANY IDENTIFICATION** 

CARTEL PRODUCTS PO BOX 151 WOODSTOCK IL 60098

Customer Information Number: 800-821-3791

**EMERGENCY TELEPHONE NUMBER** 

24-Hour Emergency Contact: 800-535-5053 INTERNATIION800-424-9300AL 1-352 -353-3500

## 2. HAZARDS IDENTIFICATION

#### **Hazard classification**

This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Eye irritation - Category 2A
Reproductive toxicity - Category 2

# Label elements Hazard pictograms





Product name: CARTEL DOT 4 580 RACING BRAKE FLUID Issue Date: 03/10/2015

Signal word: WARNING!

#### **Hazards**

Causes serious eye irritation.

Suspected of damaging fertility or the unborn child.

## **Precautionary statements**

#### Prevention

Obtain special instructions before use.

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

Wash skin thoroughly after handling.

Wear eye protection/ face protection.

Use personal protective equipment as required.

#### Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention.

## **Storage**

Store locked up.

#### **Disposal**

Dispose of contents/ container to an approved waste disposal plant.

#### Other hazards

no data available

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# **Chemical nature:** Polyglycol This product is a mixture.

Component	CASRN	Concentration
		_
Triethylene glycol monomethyl ether borate ester	30989-05-0	> 80.0 - < 90.0 %
Monoethanolamine	141-43-5	> 0.5 - < 1.5 %
2,6-Di-tert-butyl-p-cresol (BHT)	128-37-0	< 1.0 %
Diethylene glycol monomethyl ether	111-77-3	< 1.0 %

# 4. FIRST AID MEASURES

## Description of first aid measures

**General advice:** First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**Inhalation:** Move person to fresh air; if effects occur, consult a physician.

**Skin contact:** Wash off with plenty of water.

**Eye contact:** Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist. Suitable emergency eye wash facility should be available in work area.

**Ingestion:** If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

**Most important symptoms and effects, both acute and delayed:** Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed

**Notes to physician:** No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

# 5. FIREFIGHTING MEASURES

**Suitable extinguishing media:** Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

**Unsuitable extinguishing media:** Do not use direct water stream. May spread fire.

# Special hazards arising from the substance or mixture

**Hazardous combustion products:** During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide. Combustion products may include trace amounts of: Nitrogen oxides.

**Unusual Fire and Explosion Hazards:** Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

#### Advice for firefighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.

**Special protective equipment for firefighters:** Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

**Environmental precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

**Methods and materials for containment and cleaning up:** Small spills: Absorb with materials such as: Sand. Vermiculite. Collect in suitable and properly labeled containers. Large spills: Contain spilled material if possible. Pump into suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

#### 7. HANDLING AND STORAGE

**Precautions for safe handling:** Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

**Conditions for safe storage:** Store in the following material(s): Carbon steel. Stainless steel. Phenolic lined steel drums. Do not store in: Aluminum. Copper. Galvanized iron. Galvanized steel.

#### Storage stability

Storage temperature:

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value/Notation
Monoethanolamine	ACGIH	TWA	3 ppm
	ACGIH	STEL	6 ppm
	OSHA Z-1	TWA	6 mg/m3 3 ppm
2,6-Di-tert-butyl-p-cresol (BHT)	Dow IHG	TWA	10 mg/m3
,	ACGIH	TWA Inhalable fraction and vapor	2 mg/m3
Diethylene glycol monomethyl ether	Dow IHG	TWA	30 ppm

#### **Exposure controls**

**Engineering controls:** Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations.

# Individual protection measures

Eye/face protection: Use chemical goggles.

Skin protection

Hand protection: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Butyl rubber. Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable glove barrier materials include: Viton. Neoprene. Natural rubber ("latex"). Polyvinyl chloride ("PVC" or "vinyl"). Nitrile/butadiene rubber ("nitrile" or "NBR"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**Other protection:** Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

**Respiratory protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.

The following should be effective types of air-purifying respirators: Organic vapor cartridge.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** 

Physical state Liquid.

**Color** Colorless to yellow

**Odor** Ether

Odor Threshold No test data available

pH 7.2 Literature

Melting point/range No test data available

Freezing point < -59 °C ( < -74 °F) Literature

**Boiling point (760 mmHg)** 307 °C (585 °F) *Literature* Equilibrium Reflux Boiling Point,

dry210 °C (410 °F) FMVSS 116 Equilibrium Reflux Boiling

Point, wet362 °C (684 °F) Literature

Flash point closed cup 212.7 °C (414.9 °F) ASTM D92

Evaporation Rate (Butyl Acetate 0.01

= 1)

**Flammability (solid, gas)**The product is not flammable.

Lower explosion limitNo test data availableUpper explosion limitNo test data available

CARTEL DOT 4 580 RACING BRAKE FLUID

Product name: Issue Date: 03/10/2015

**Vapor Pressure** < 0.01 mmHg at 20 °C (68 °F) Literature

Relative Vapor Density (air = 1) 10 Literature

**Relative Density (water = 1)** 1.080 at 20 °C (68 °F) Literature Water solubility 100 % at 20 °C (68 °F) Literature

Partition coefficient: nno data available

octanol/water

No test data available Auto-ignition temperature **Decomposition temperature** No test data available

**Kinematic Viscosity** 1.725 mm2/s at -40 °C (-40 °F) *Literature* 2.7 mm2/s at 100 °C

(212 °F)

**Explosive properties** No test data available Oxidizing properties No test data available Molecular weight no data available

Molecular formula Not applicable (mixture)

**Volatile Organic Compounds** 183 g/L EPA Method No. 24 (typical value)

NOTE: The physical data presented above are typical values and should not be construed as a specification.

## 10. STABILITY AND REACTIVITY

Reactivity: no data available

Chemical stability: Stable under recommended storage conditions. See Storage, Section 7.

**Possibility of hazardous reactions:** Polymerization will not occur.

Conditions to avoid: Do not distill to dryness. Product can oxidize at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems.

Incompatible materials: Avoid contact with: Strong acids. Strong bases. Strong oxidizers.

Hazardous decomposition products: Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Aldehydes. Ketones. Organic acids.

## 11. TOXICOLOGICAL INFORMATION

Toxicological information on this product or its components appear in this section when such data is available.

Acute toxicity Acute oral toxicity **Product name:** Issue Date: 03/10/2015

Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.

For the major component(s): LD50, Rat, 11,000 mg/kg

#### Acute dermal toxicity

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

For the major component(s): LD50, Rabbit, 7,400 - 10,500 mg/kg

## Acute inhalation toxicity

Prolonged exposure is not expected to cause adverse effects. For respiratory irritation and narcotic effects: Relevant data not available.

The LC50 has not been determined.

#### Skin corrosion/irritation

Prolonged exposure not likely to cause significant skin irritation.

May cause more severe response on covered skin (under clothing, gloves).

#### Serious eye damage/eye irritation

May cause moderate eye irritation. May cause slight corneal injury.

#### Sensitization

For skin sensitization:

No relevant data found.

For respiratory sensitization:

No relevant data found.

# Specific Target Organ Systemic Toxicity (Single Exposure)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

## Specific Target Organ Systemic Toxicity (Repeated Exposure)

Contains component(s) which have been reported to cause effects on the following organs in animals: Testes.

Kidney.

Liver.

#### Carcinogenicity

No relevant data found.

#### **Teratogenicity**

In animals, diethylene glycol methyl ether is slightly toxic to the fetus at doses nontoxic to the mother following skin contact; birth defects have been seen only following high oral doses which have little relevance to human exposure.

#### Reproductive toxicity

Contains component(s) which did not interfere with reproduction in animal studies.

Product name: CARTEL DOT 4 580 RACING BRAKE FLUID Issue Date: 03/10/2015

# Mutagenicity

In vitro genetic toxicity studies were negative for component(s) tested. Genetic toxicity studies in animals were negative for component(s) tested.

#### **Aspiration Hazard**

Based on available information, aspiration hazard could not be determined.

#### COMPONENTS INFLUENCING TOXICOLOGY:

#### <u>Triethylene glycol monomethyl ether borate ester</u>

## Acute inhalation toxicity

The LC50 has not been determined.

#### Monoethanolamine

#### Acute inhalation toxicity

LC50, Rat, 4 Hour, vapour, > 1.48 mg/l Estimated. No deaths occurred at this concentration.

## 2,6-Di-tert-butyl-p-cresol (BHT)

## Acute inhalation toxicity

The LC50 has not been determined.

#### Diethylene glycol monomethyl ether

## Acute inhalation toxicity

No adverse effects are anticipated from single exposure to vapor. For respiratory irritation and narcotic effects: No relevant data found. The LC50 value is greater than the Maximum Attainable Concentration.

LC0, Rat, 6 Hour, vapour, > 1.2 mg/l No deaths occurred at this concentration.

#### 12. ECOLOGICAL INFORMATION

Ecotoxicological information on this product or its components appear in this section when such data is available.

## **Toxicity**

#### Triethylene glycol monomethyl ether borate ester

#### Acute toxicity to fish

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested). LC50, Oncorhynchus mykiss (rainbow trout), semi-static test, 96 Hour, 590 mg/L

#### Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), static test, 48 Hour, > 1,000 mg/l

## Acute toxicity to algae/aquatic plants

EC50, alga Scenedesmus sp., static test, 96 Hour, Growth rate inhibition, 430 mg/l

#### **Monoethanolamine**

Acute toxicity to fish

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

LC50, Cyprinus carpio (Carp), semi-static test, 96 Hour, 349 mg/l, Tested according to Directive 92/69/EEC.

#### Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), static test, 48 Hour, 65 mg/l, Directive 84/449/EEC, C.2

# Acute toxicity to algae/aquatic plants

ErC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, Growth rate inhibition, 2.5 mg/l, OECD Test Guideline 201 or Equivalent

#### Toxicity to bacteria

EC50, activated sludge, > 1,000 mg/l

#### Chronic toxicity to fish

NOEC, Oryzias latipes (Orange-red killifish), 30 d, Other, 1.2 mg/l LOEC, Oryzias latipes (Orange-red killifish), 30 d, Other, 3.6 mg/l

## Chronic toxicity to aquatic invertebrates

NOEC, Daphnia magna (Water flea), 21 d, number of offspring, 0.85 mg/l

## 2,6-Di-tert-butyl-p-cresol (BHT)

#### Acute toxicity to fish

Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).

#### Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), static test, 48 Hour, 0.48 mg/l, OECD Test Guideline 202 or Equivalent

## Chronic toxicity to aquatic invertebrates

NOEC, Daphnia magna (Water flea), semi-static test, 21 d, number of offspring, 0.07 mg/l

#### Diethylene glycol monomethyl ether

#### Acute toxicity to fish

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested). LC50, Pimephales promelas (fathead minnow), static test, 96 Hour, 5,741 mg/l, OECD Test Guideline 203 or Equivalent

#### Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), static test, 48 Hour, 1,192 mg/l, OECD Test Guideline 202 or Equivalent

# Acute toxicity to algae/aquatic plants

EC50, Pseudokirchneriella subcapitata (green algae), static test, 96 Hour, Biomass, > 1,000 mg/l, OECD Test Guideline 201 or Equivalent

#### Toxicity to bacteria

EC50, activated sludge, 0.5 Hour, > 1,995 mg/l

# Persistence and degradability

Product name: | CARTEL\_DOT 4 580 RACING BRAKE FLUID | Issue Date: 03/10/2015

## Triethylene glycol monomethyl ether borate ester

**Biodegradability:** Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

10-day Window: Fail **Biodegradation:** 22 - 26 % **Exposure time:** 28 d

Method: OECD Test Guideline 301B or Equivalent

#### Monoethanolamine

Biodegradability: Material is readily biodegradable. Passes OECD test(s) for ready

biodegradability. 10-day Window: Pass **Biodegradation:** > 90 % **Exposure time:** 21 d

Method: OECD Test Guideline 301A or Equivalent

Theoretical Oxygen Demand: 2.36 mg/mg

Photodegradation Sensitizer: OH radicals Atmospheric half-life: 0.45 d

Method: Estimated.

# 2,6-Di-tert-butyl-p-cresol (BHT)

Biodegradability: Material is expected to biodegrade very slowly (in the environment). Fails

to pass OECD/EEC tests for ready biodegradability.

10-day Window: Not applicable **Biodegradation:** 4.5 % **Exposure time:** 28 d

Method: OECD Test Guideline 301C or Equivalent

Theoretical Oxygen Demand: 2.98 mg/mg

Chemical Oxygen Demand: 2.25 - 2.27 mg/mg

#### Diethylene glycol monomethyl ether

Biodegradability: Material is readily biodegradable. Passes OECD test(s) for ready

biodegradability. Material is ultimately biodegradable (reaches > 70% mineralization in OECD

test(s) for inherent biodegradability).

10-day Window: Pass Biodegradation: 100 % Exposure time: 28 d

Method: OECD Test Guideline 301B or Equivalent

Theoretical Oxygen Demand: 1.73 mg/mg

**Photodegradation** 

Atmospheric half-life: 4.9 Hour

**Method:** Estimated.

## Bioaccumulative potential

## Triethylene glycol monomethyl ether borate ester

Bioaccumulation: Based on information for component(s): Bioconcentration potential is low

(BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): < 3

#### <u>Monoethanolamine</u>

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): -1.91 Measured

# 2,6-Di-tert-butyl-p-cresol (BHT)

Bioaccumulation: Bioconcentration potential is moderate (BCF between 100 and 3000 or

Log Pow between 3 and 5).

Partition coefficient: n-octanol/water(log Pow): 4.17 - 5.10 Estimated.

Bioconcentration factor (BCF): 598.4 Fish. Estimated.

#### Diethylene glycol monomethyl ether

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3). **Partition coefficient:** n-octanol/water(log Pow): -0.47 at 20 °C Measured

#### Mobility in soil

# Triethylene glycol monomethyl ether borate ester

No relevant data found.

#### Monoethanolamine

Potential for mobility in soil is very high (Koc between 0 and 50).

Partition coefficient(Koc): 1.17 Estimated.

#### 2,6-Di-tert-butyl-p-cresol (BHT)

Expected to be relatively immobile in soil (Koc > 5000).

Partition coefficient(Koc): > 5000 Estimated.

# Diethylene glycol monomethyl ether

Potential for mobility in soil is very high (Koc between 0 and 50).

**Partition coefficient(Koc):** < 1 Estimated.

## 13. DISPOSAL CONSIDERATIONS

Disposal methods: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device.

**Treatment and disposal methods of used packaging:** Empty containers should be recycled or otherwise disposed of by an approved waste management facility. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. Do not re-use containers for any purpose.

# 14. TRANSPORT INFORMATION

DOT

Not regulated for transport

#### **Classification for SEA transport (IMO-IMDG):**

Not regulated for transport

Transport in bulk Consult IMO regulations before transporting ocean bulk according to Annex I or II of MARPOL 73/78 and the

#### Classification for AIR transport (IATA/ICAO):

**IBC or IGC Code** 

Not regulated for transport

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

#### 15. REGULATORY INFORMATION

#### **OSHA Hazard Communication Standard**

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

No SARA Hazards

# Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

# Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) Section 103

This material does not contain any components with a CERCLA RQ.

#### California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

WARNING: This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm.

Product name: CARTEL DOT 4 580 RACING BRAKE FLUID Issue Date: 03/10/2015

# California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

WARNING: This product contains a chemical(s) known to the State of California to cause cancer.

#### Pennsylvania

The following chemicals are listed because of the additional requirements of Pennsylvania law:

Components CASRN
Monoethanolamine 141-43-5

#### **United States TSCA Inventory (TSCA)**

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

:

#### 16. OTHER INFORMATION

#### **Product Literature**

Additional information on this product may be obtained by calling your sales or customer service contact.

# **Hazard Rating System**

#### **NFPA**

Health	Fire	Reactivity
1	1	0

#### Revision

Identification Number: 101232861 / A001 / Issue Date: 03/10/2015 / Version: 7.0 Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

Legend

ACGIH	USA. ACGIH Threshold Limit Values (TLV)
Dow IHG	Dow Industrial Hygiene Guideline
OSHA Z-1	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air
	Contaminants
STEL	Short-term exposure limit
TWA	8-hour, time-weighted average

#### **Information Source and References**

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

The Cartel Products Company urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here

Page 13 of 14

pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.